

Figure 1

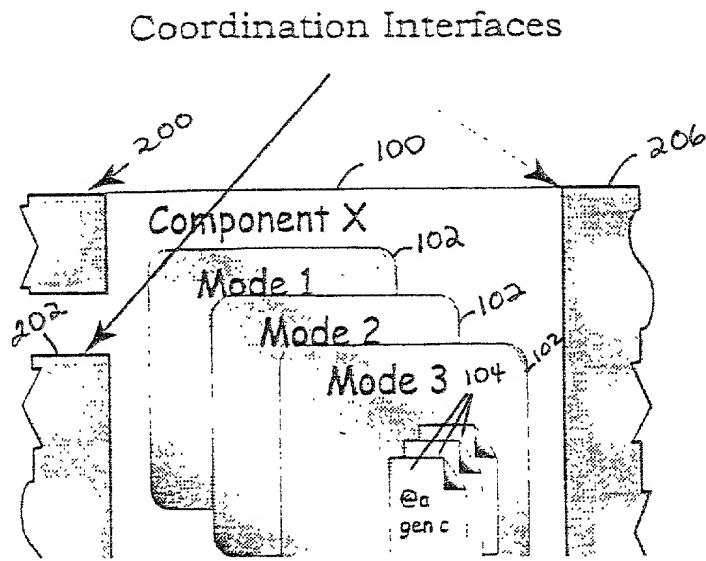


Figure 2

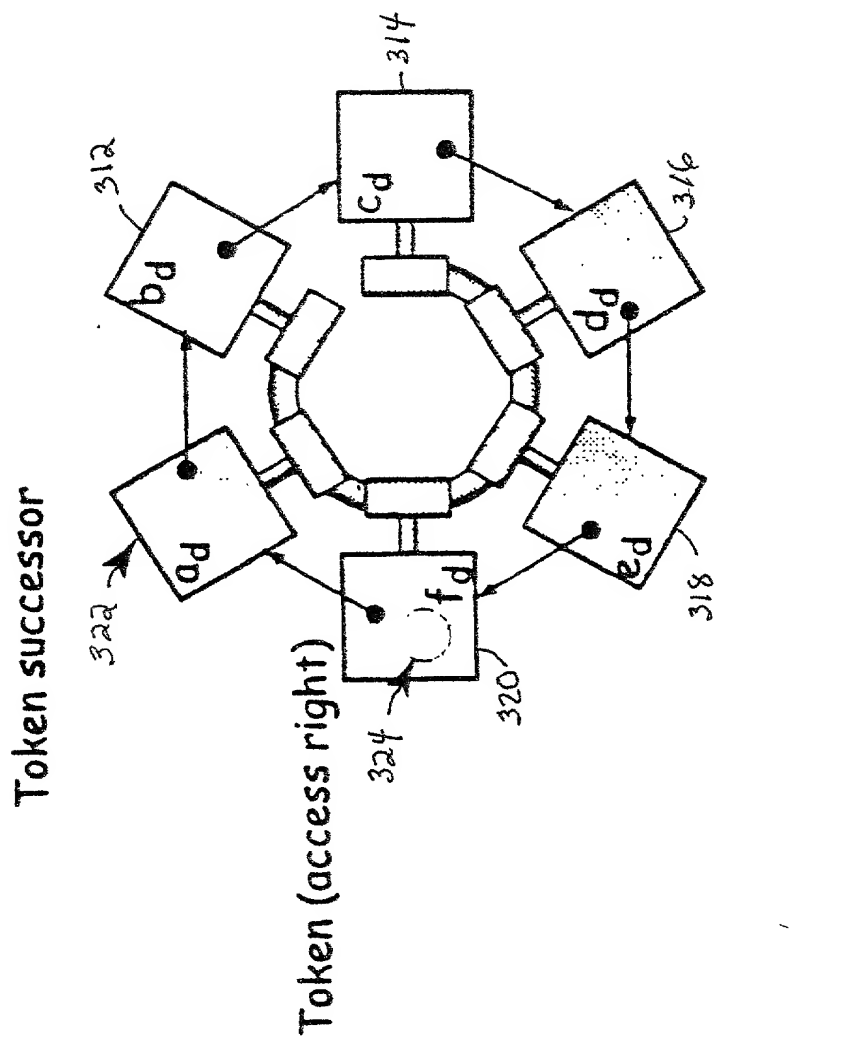


Figure 3A

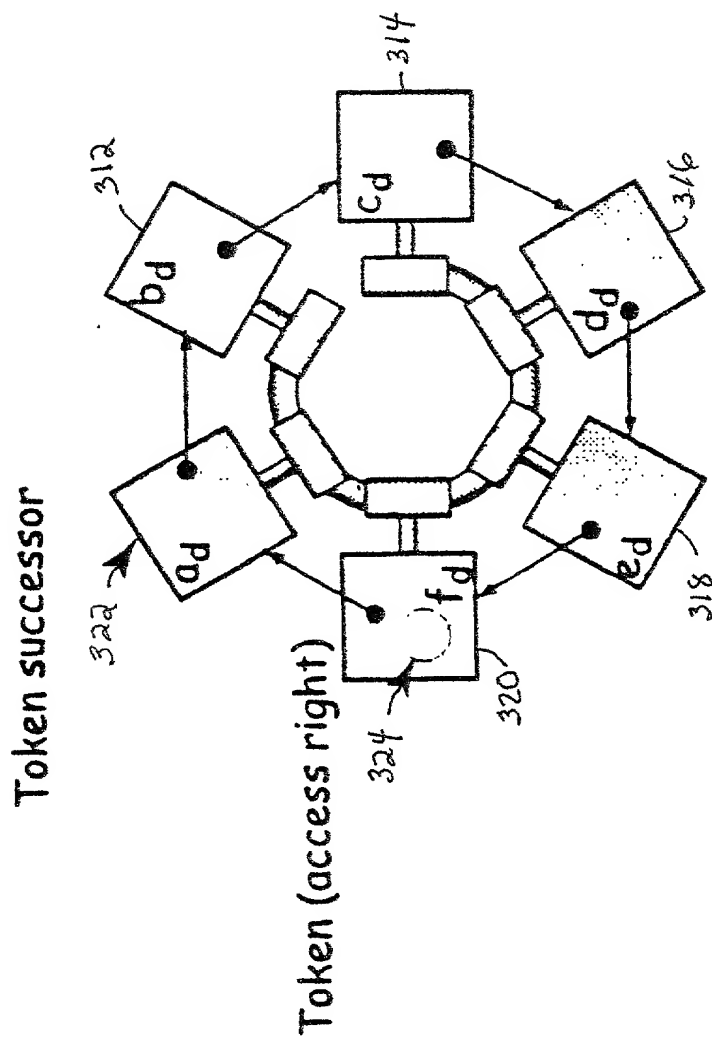


Figure 3B

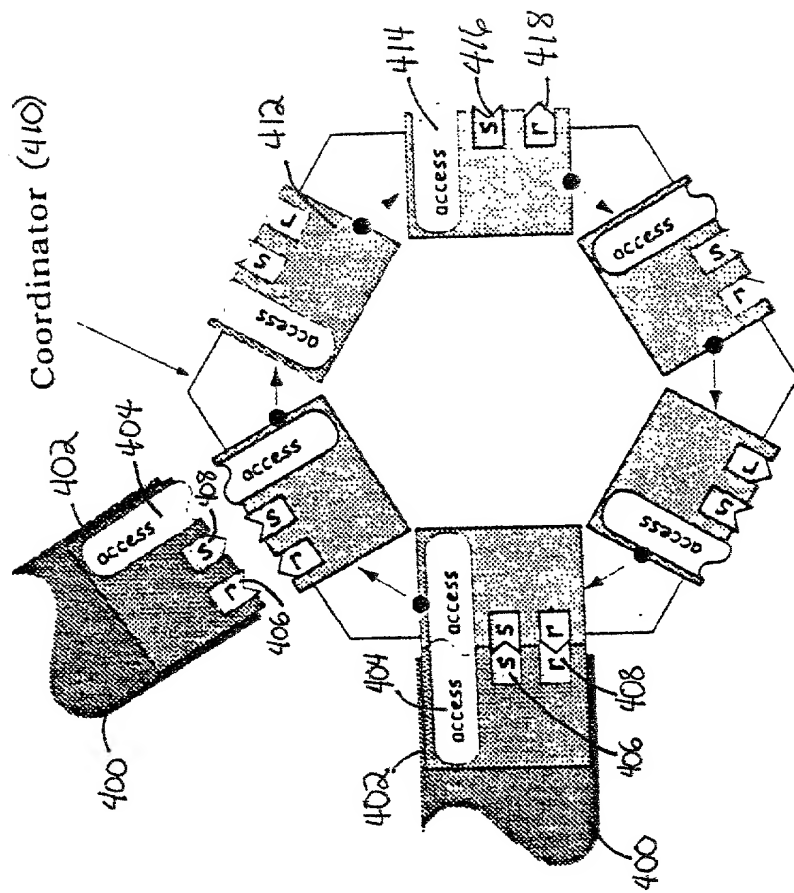


Figure 4B

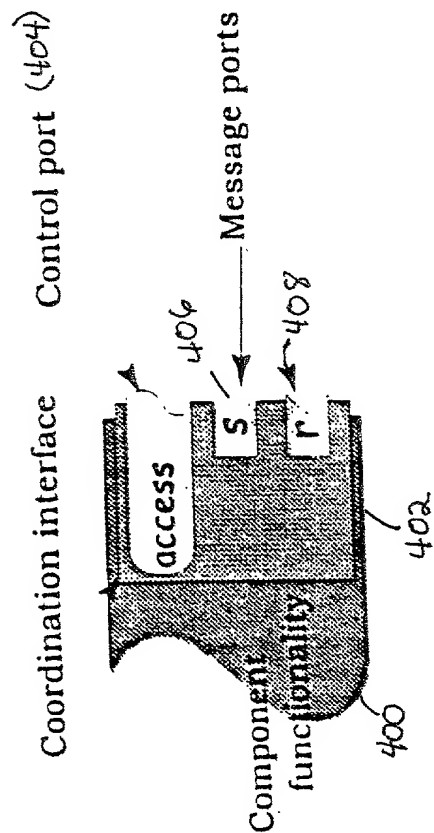


Figure 4A

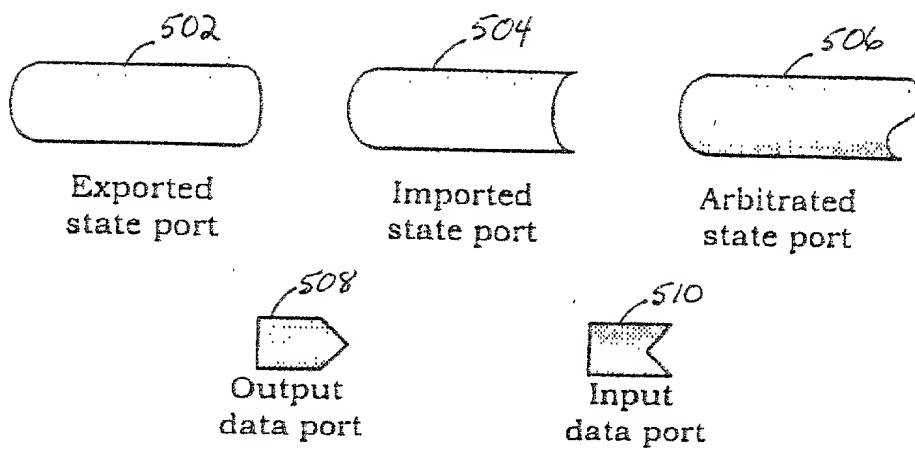


Figure 5

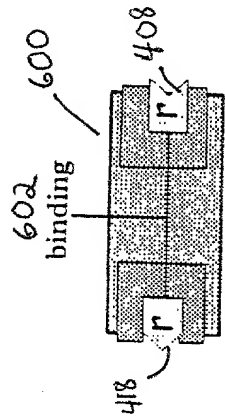


Figure 6A

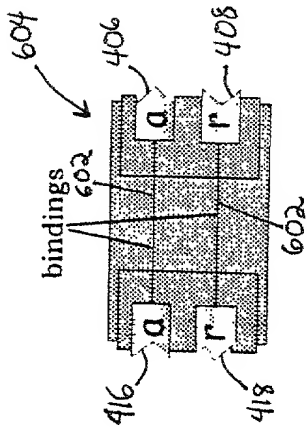


Figure 6B

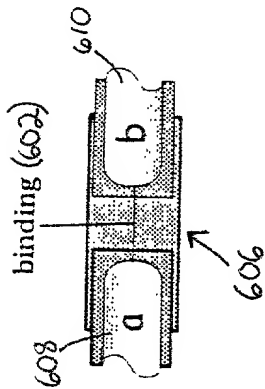


Figure 6C

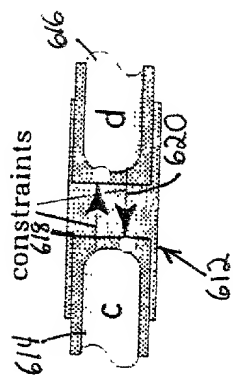


Figure 6D

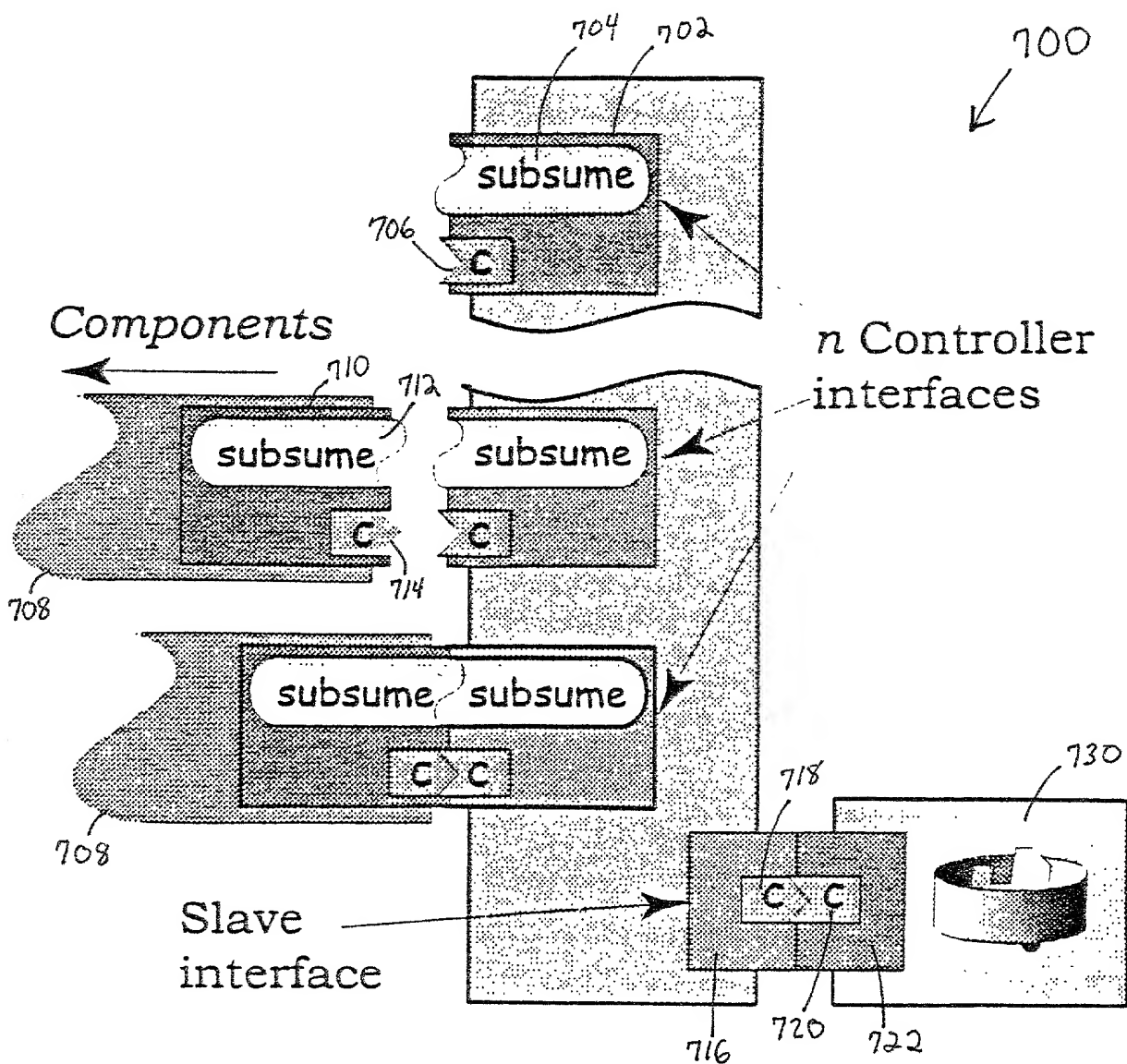


Figure 7

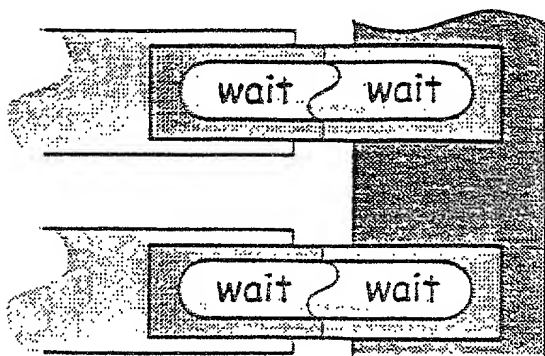
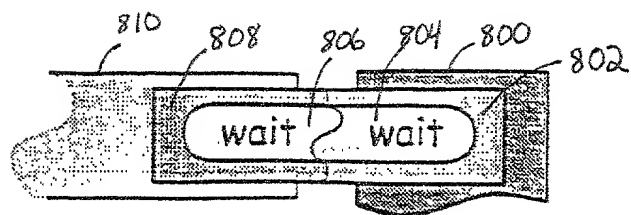


Figure 8

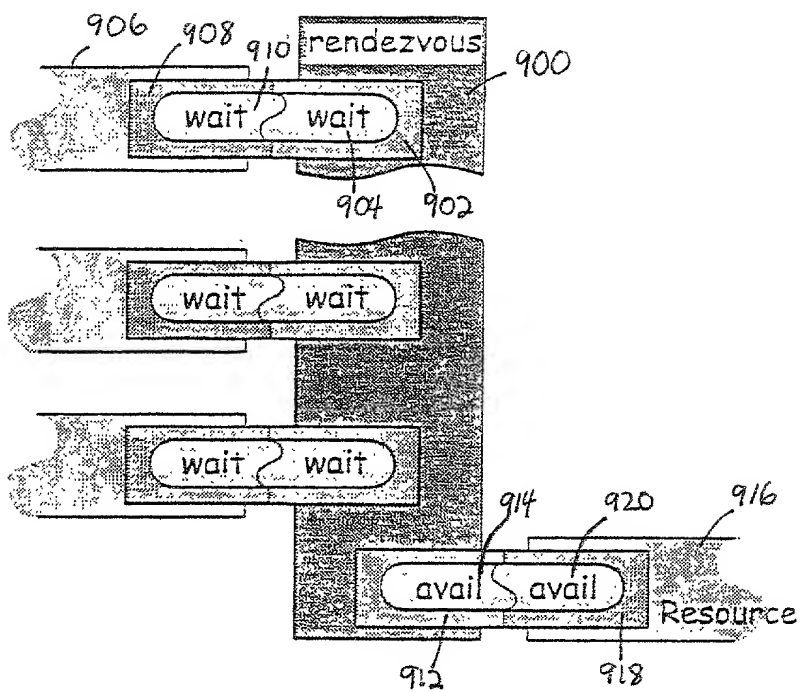


Figure 9

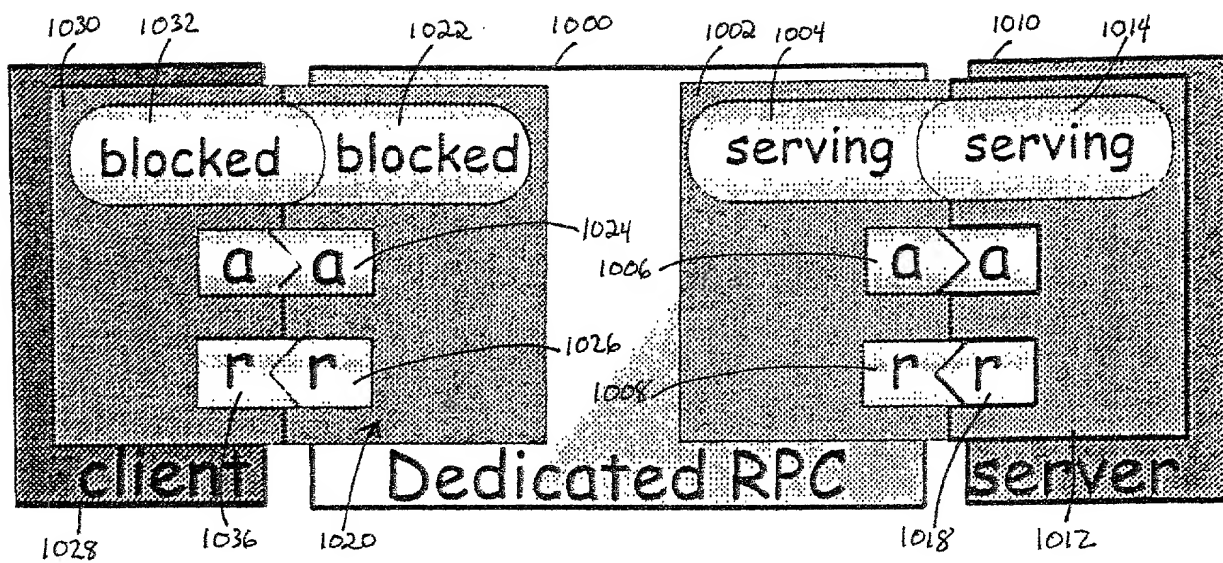


Figure 10

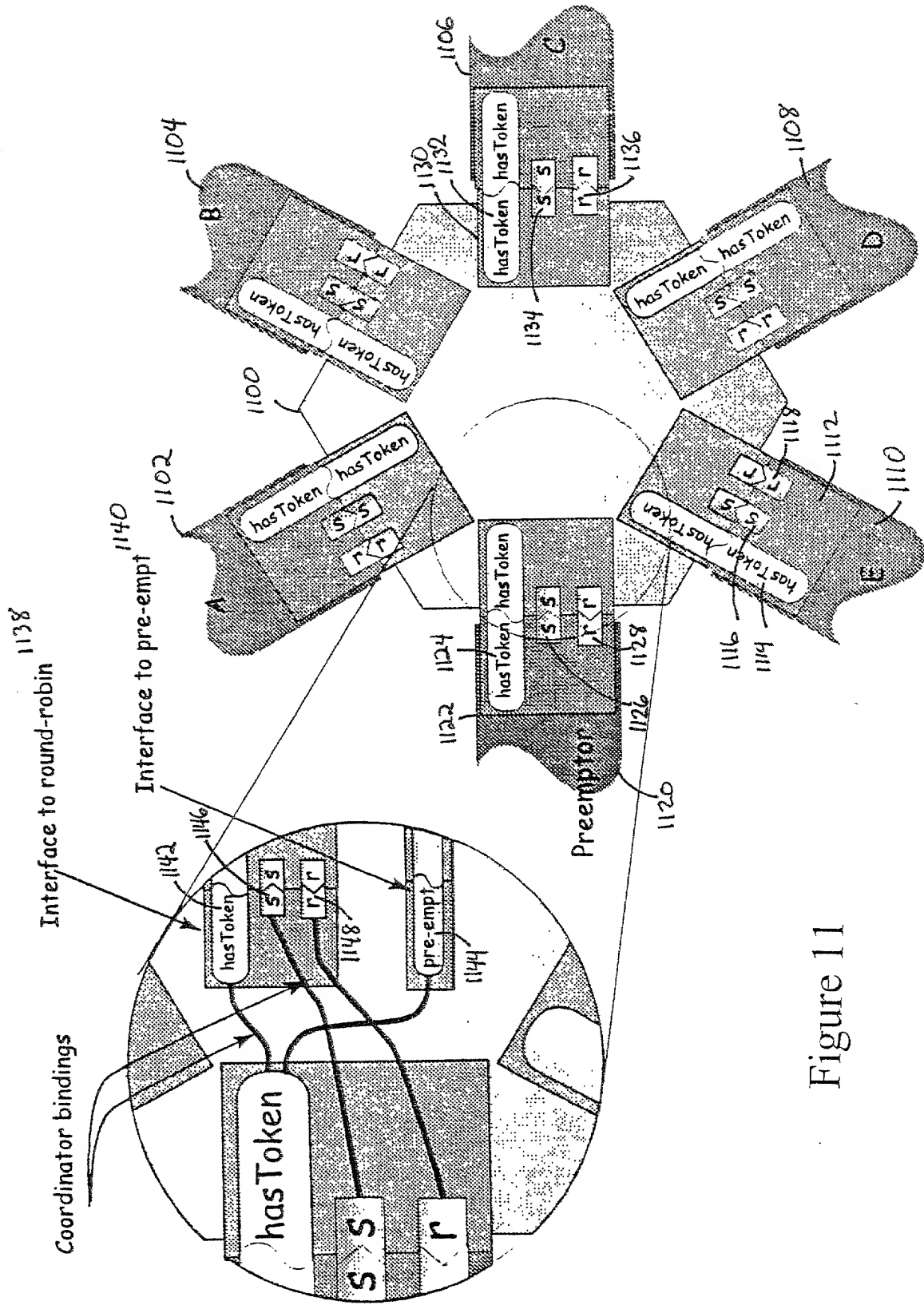


Figure 11

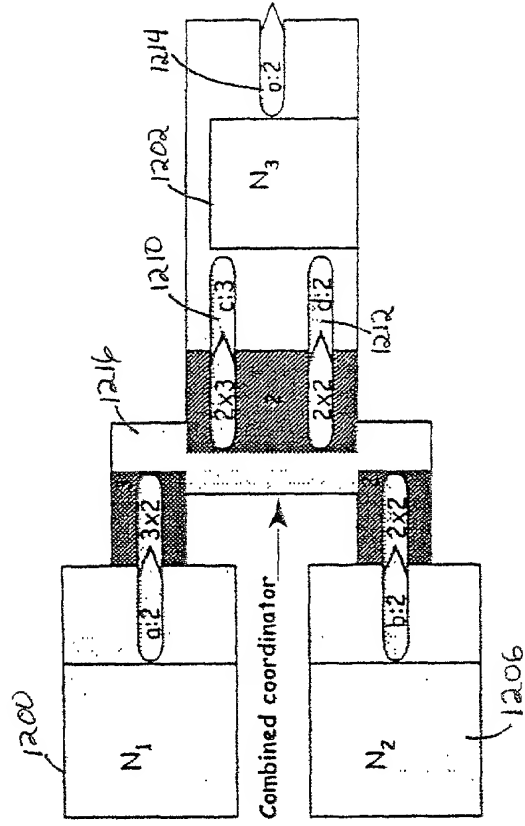


Figure 12A

Figure 12B

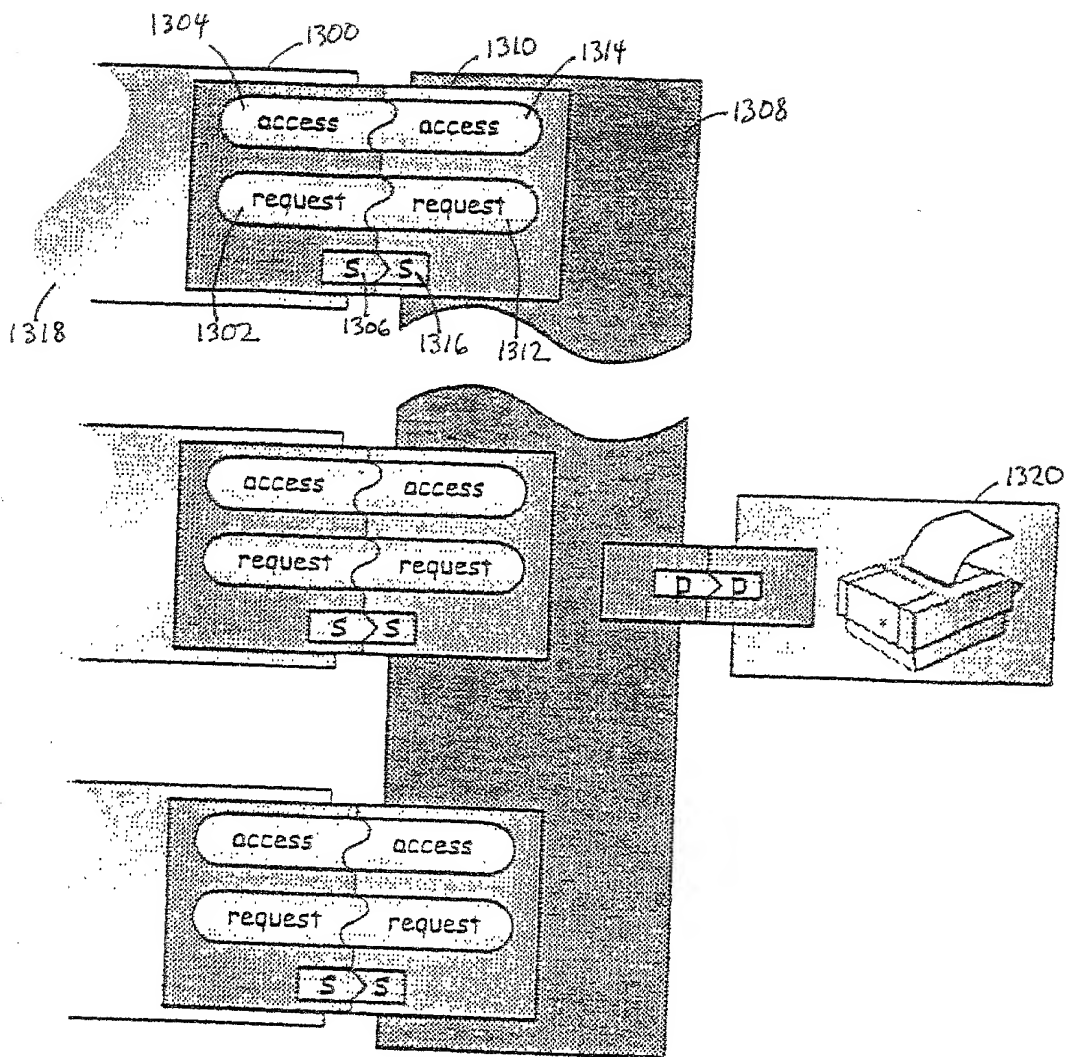


Figure 13

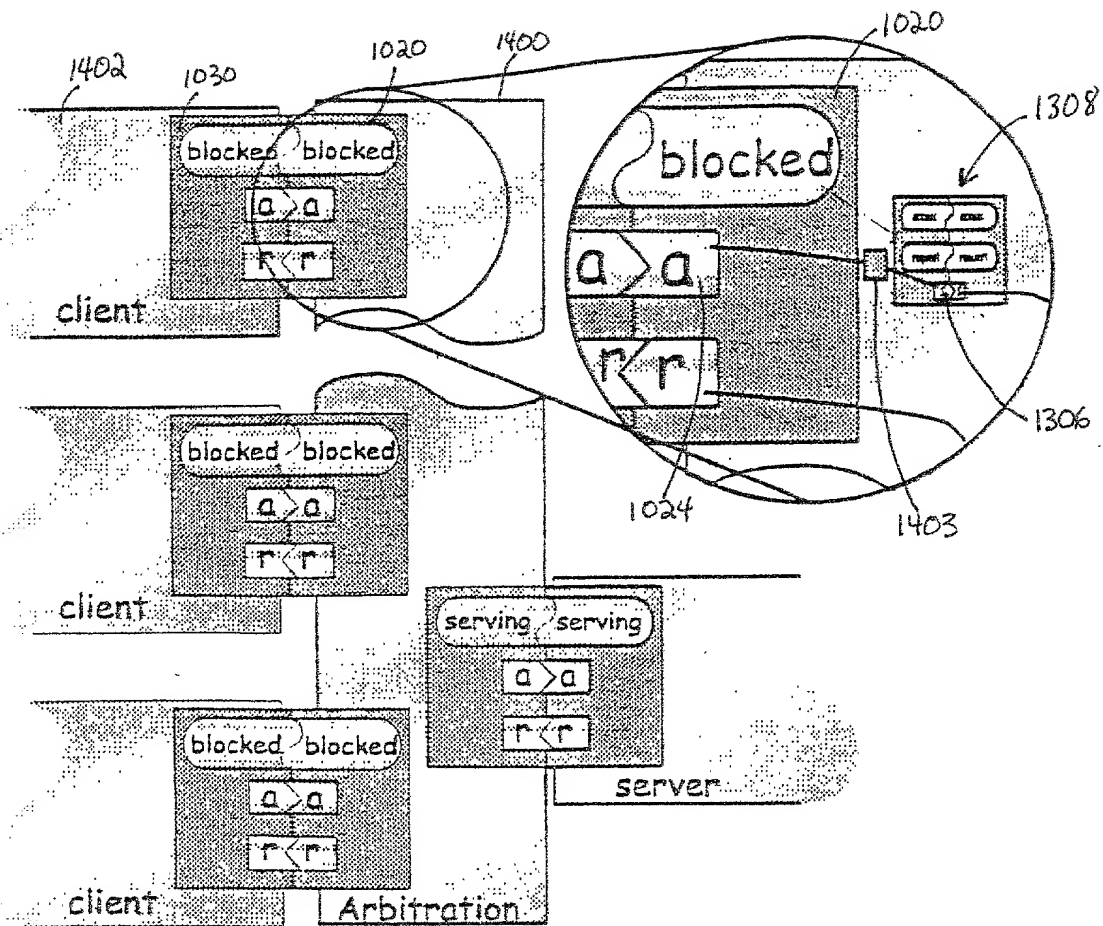


Figure 14

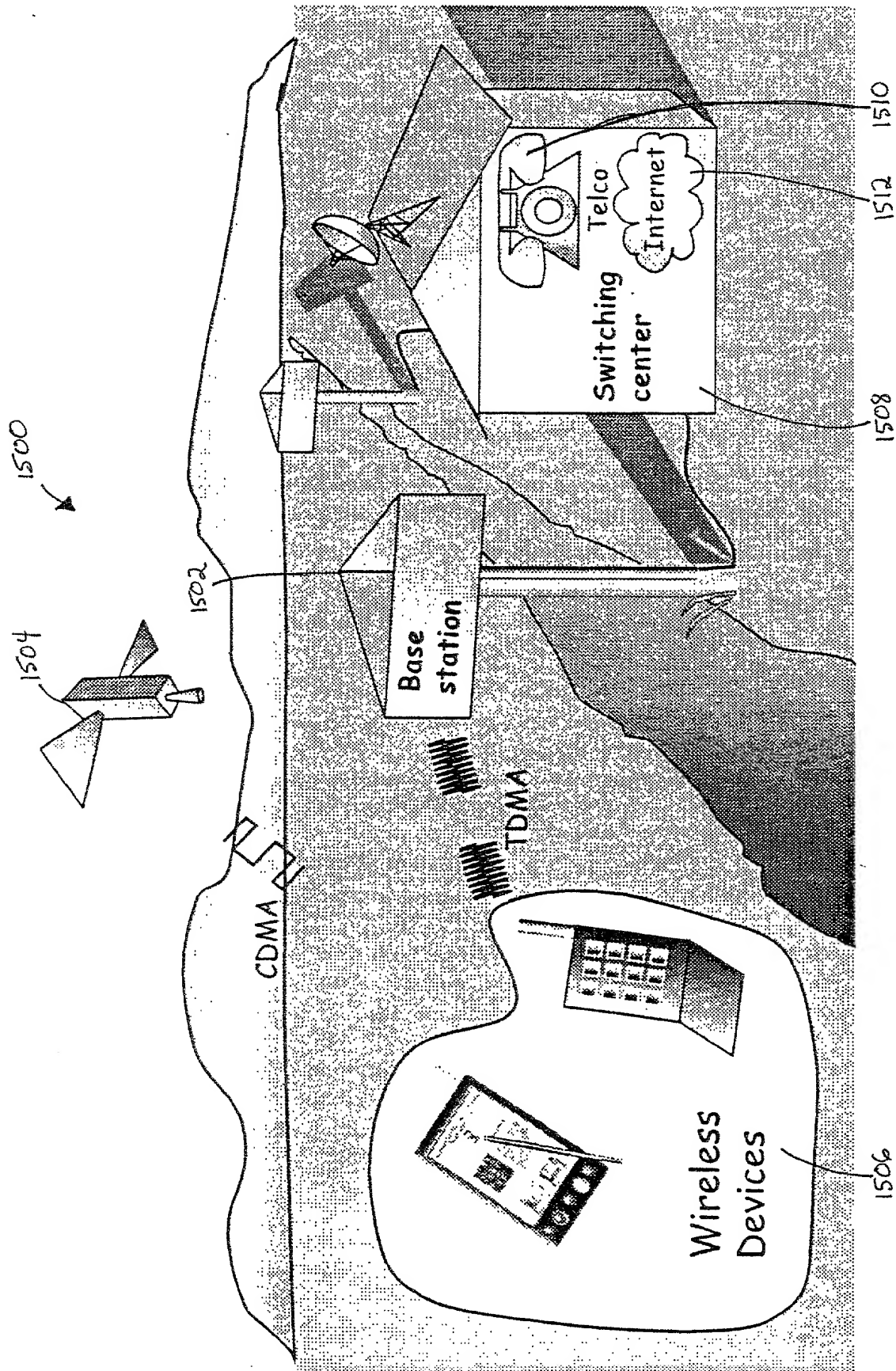


Figure 15

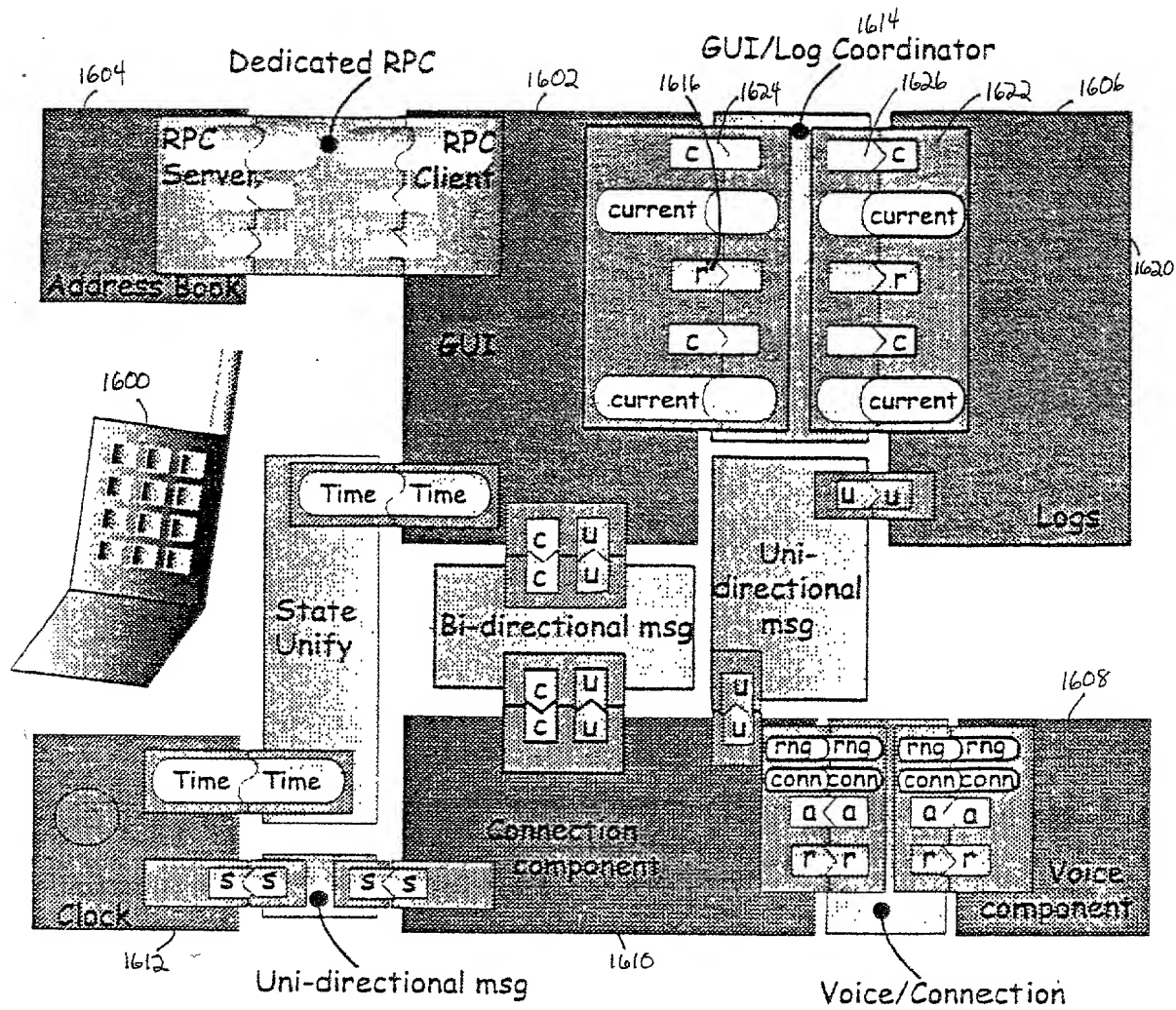


Figure 16

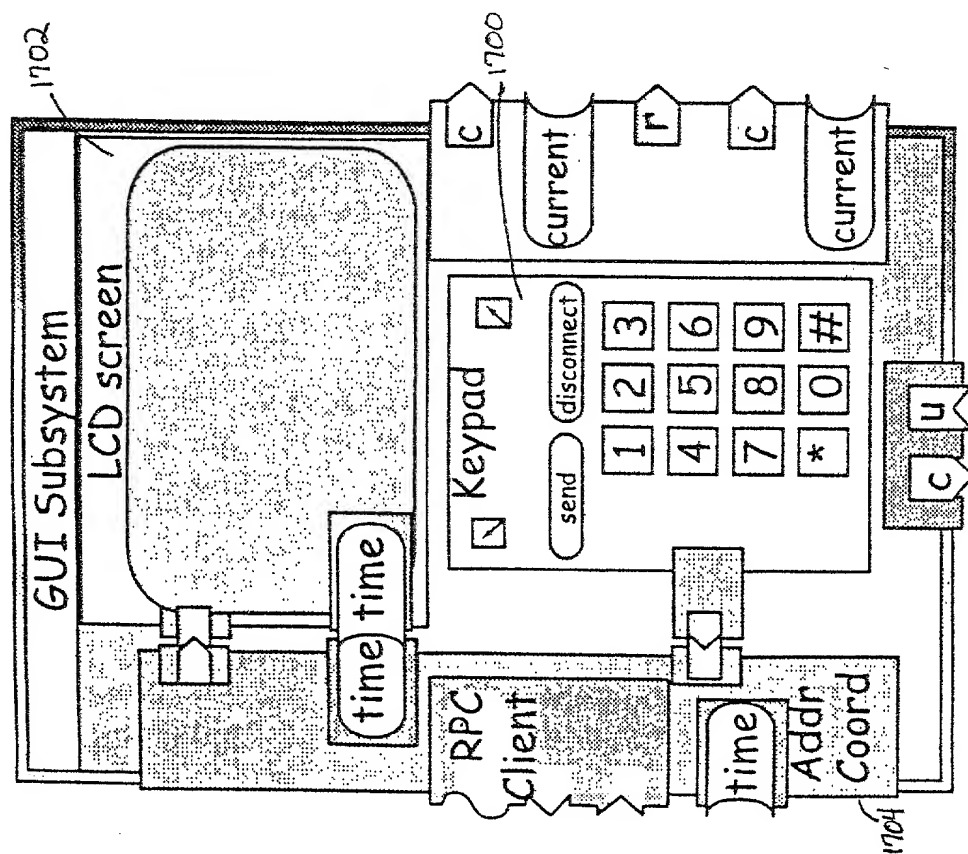


Figure 17A

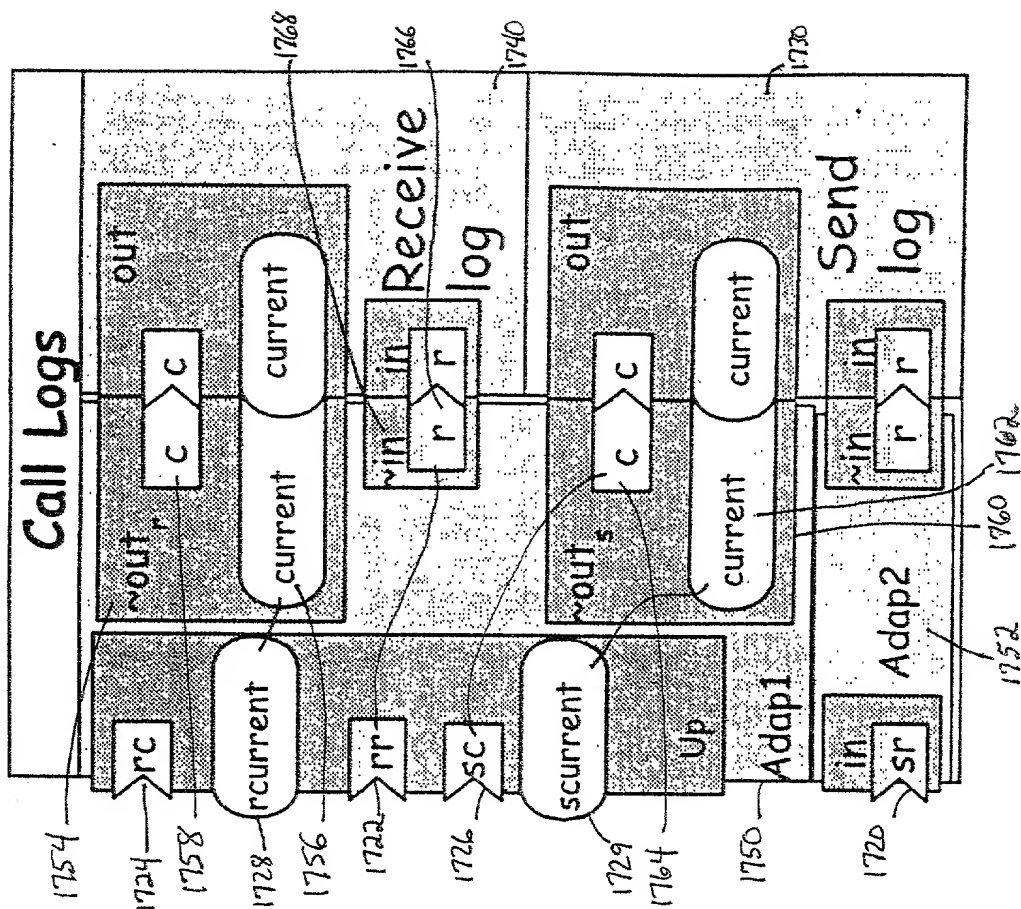


Figure 17B

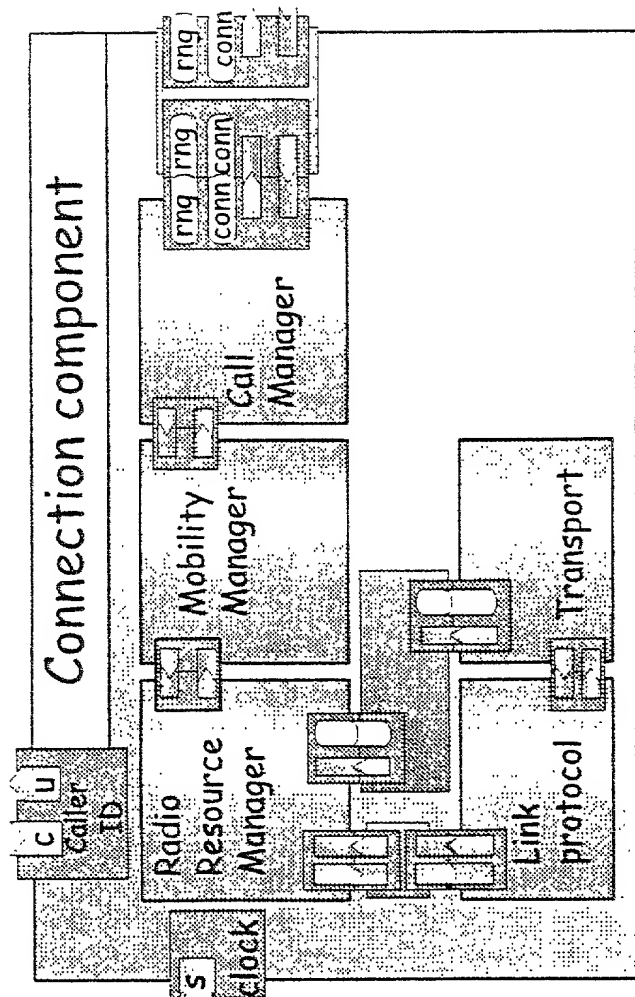


Figure 18A

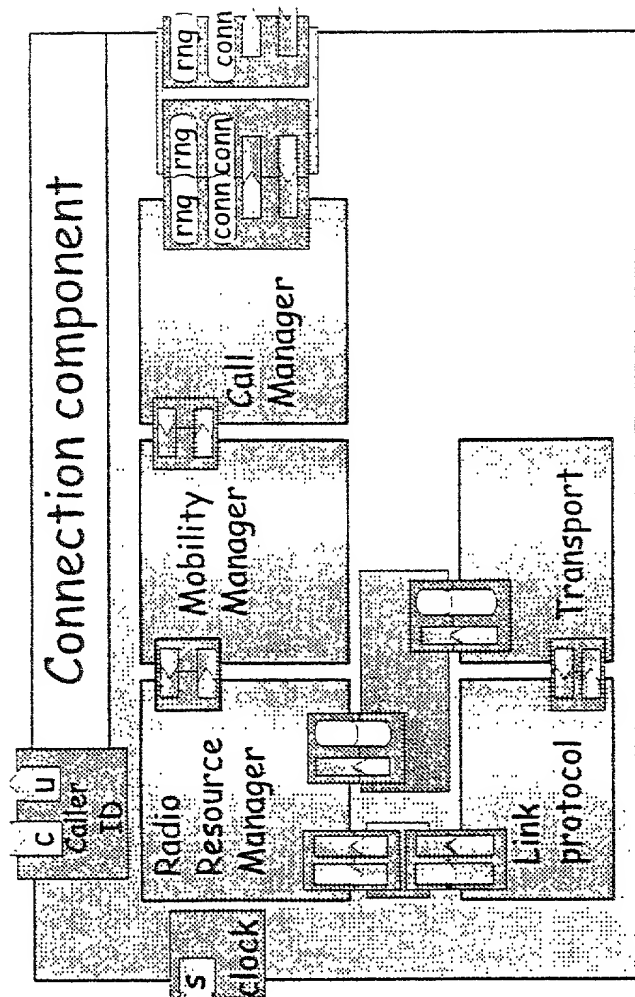


Figure 18B

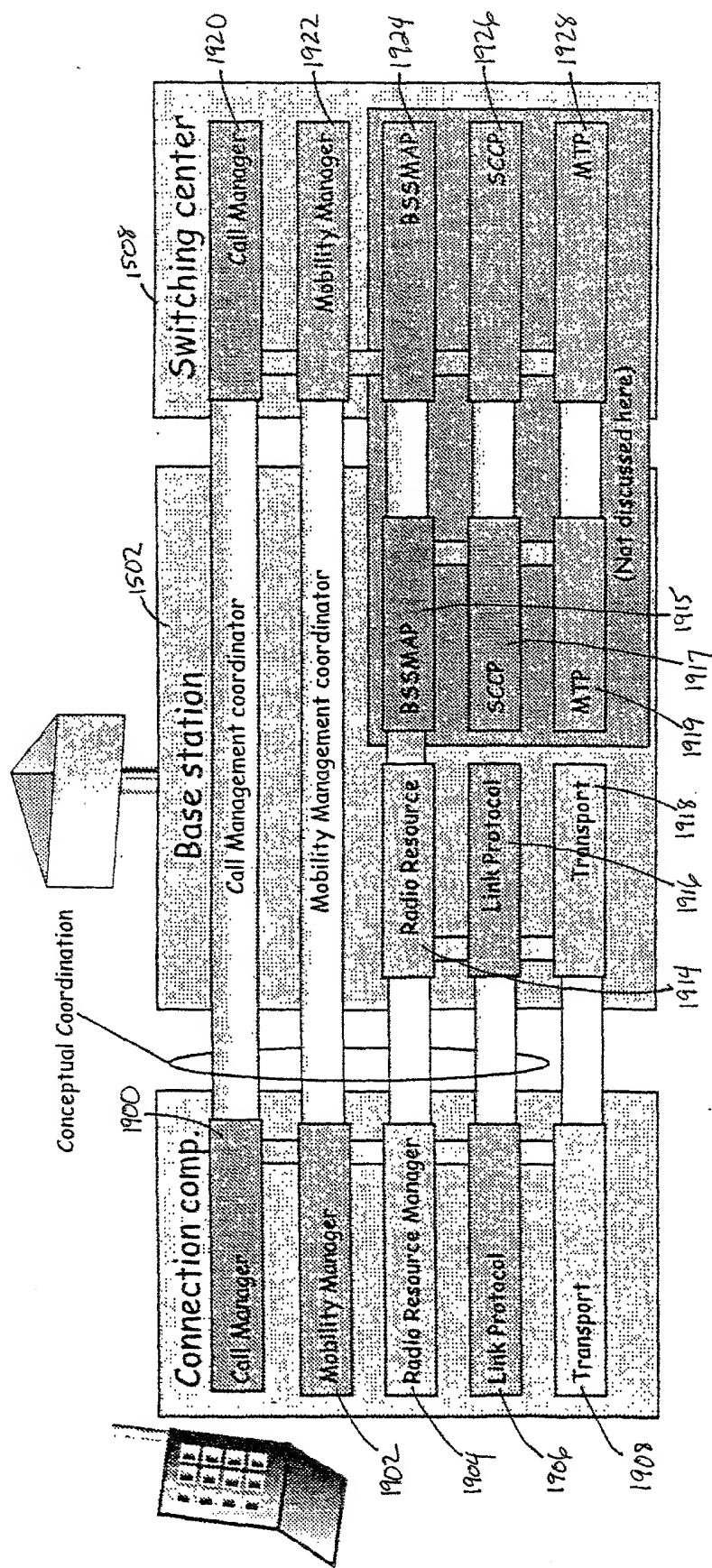


Figure 19

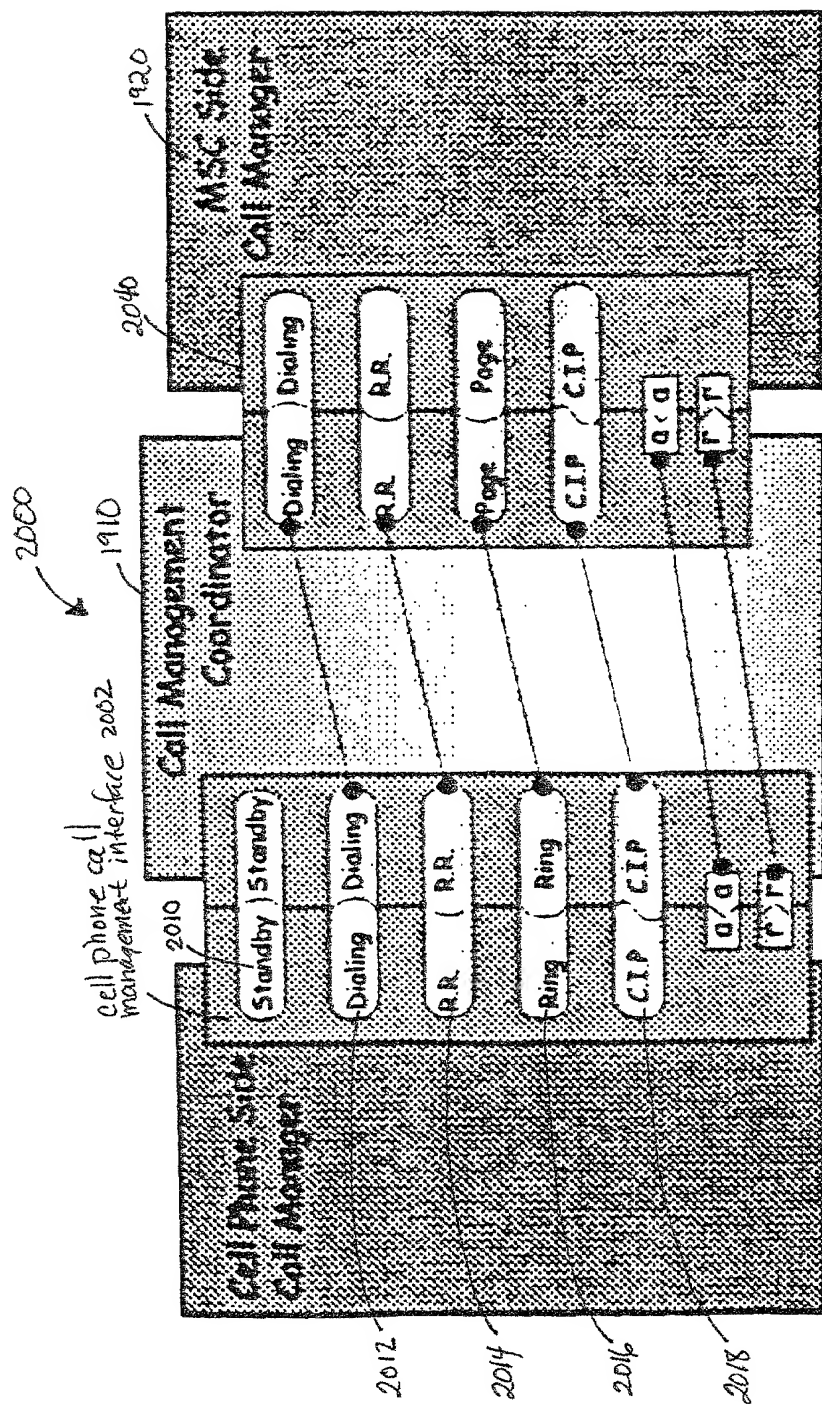


Figure 20

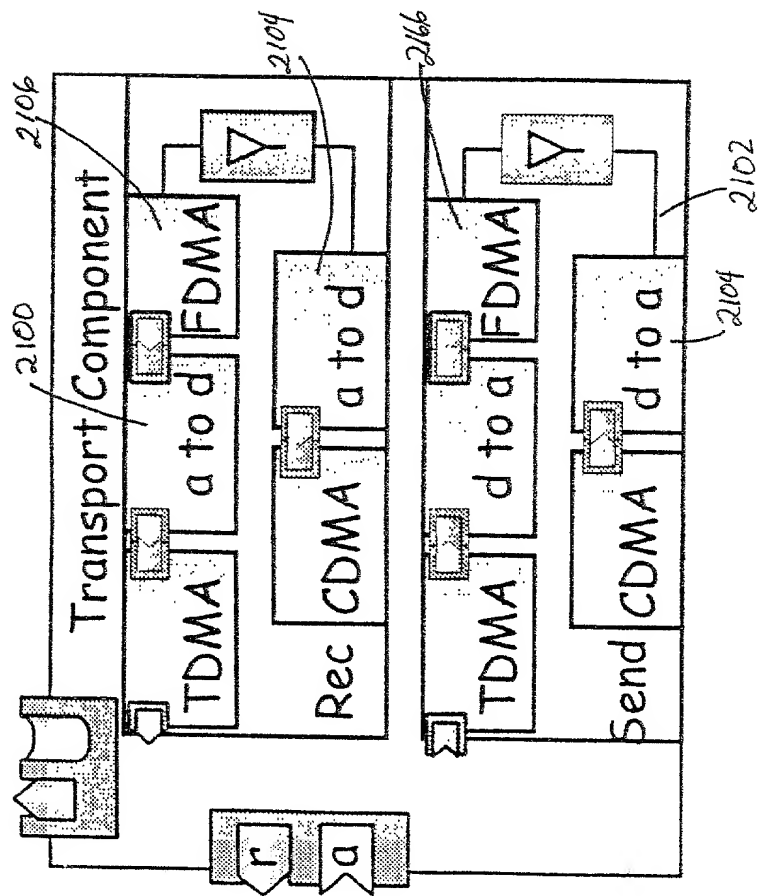


Figure 21A

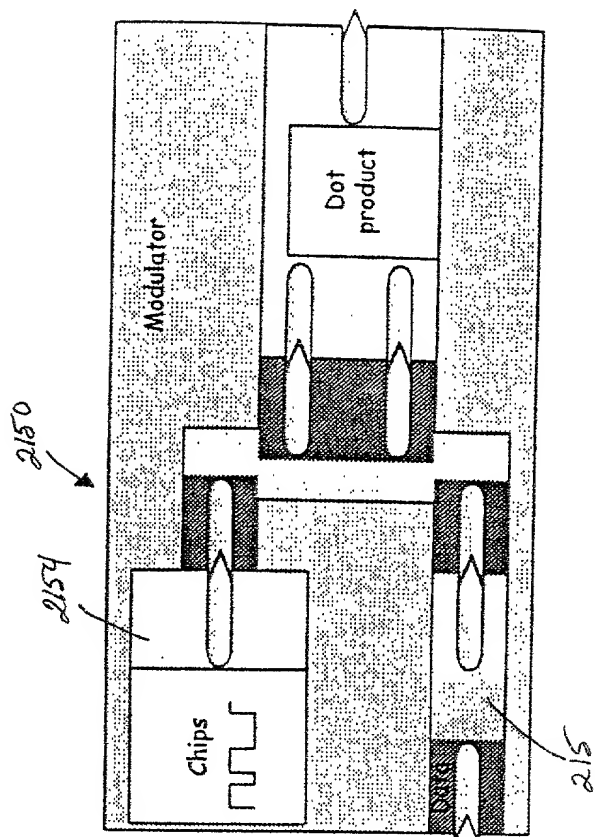


Figure 21B

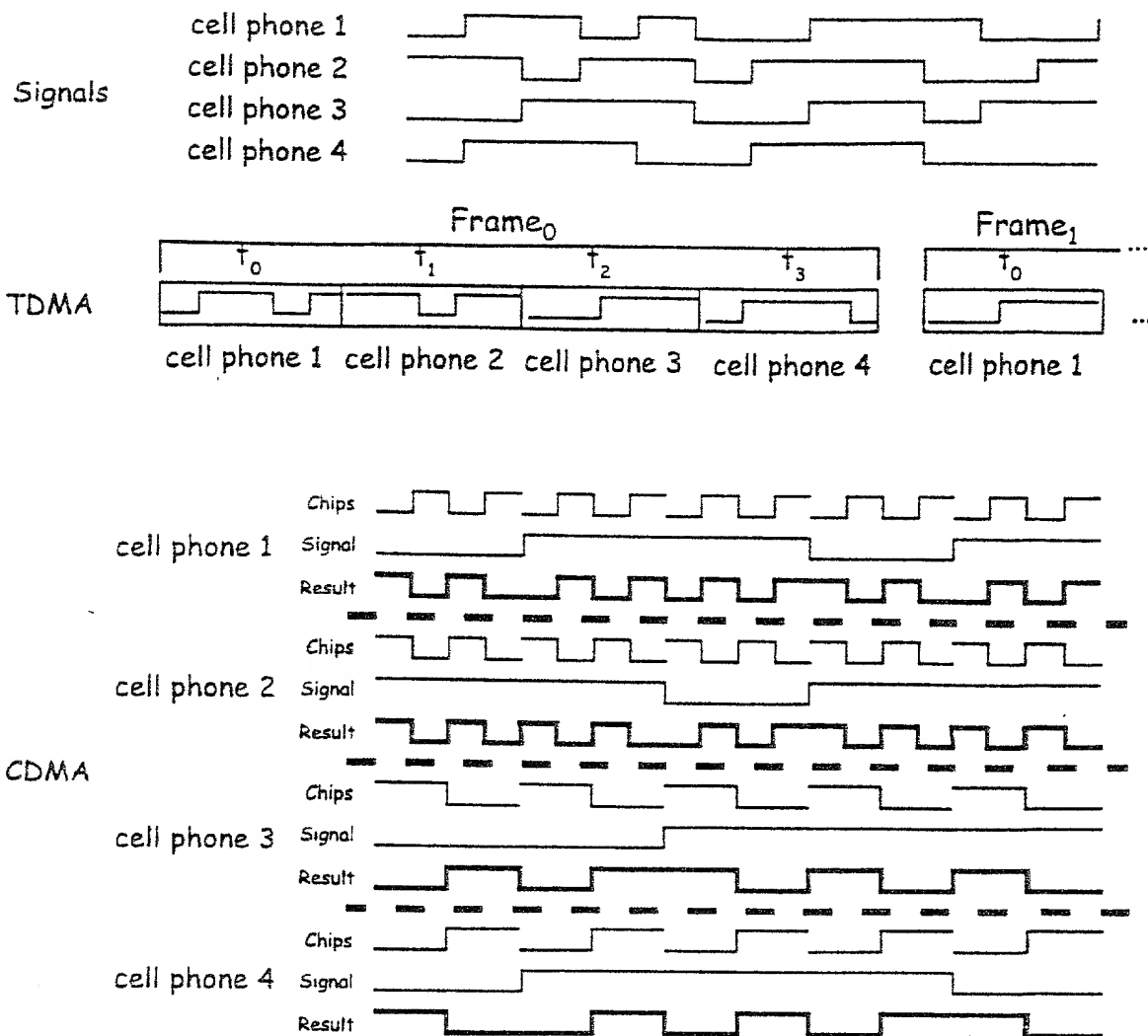


Figure 22

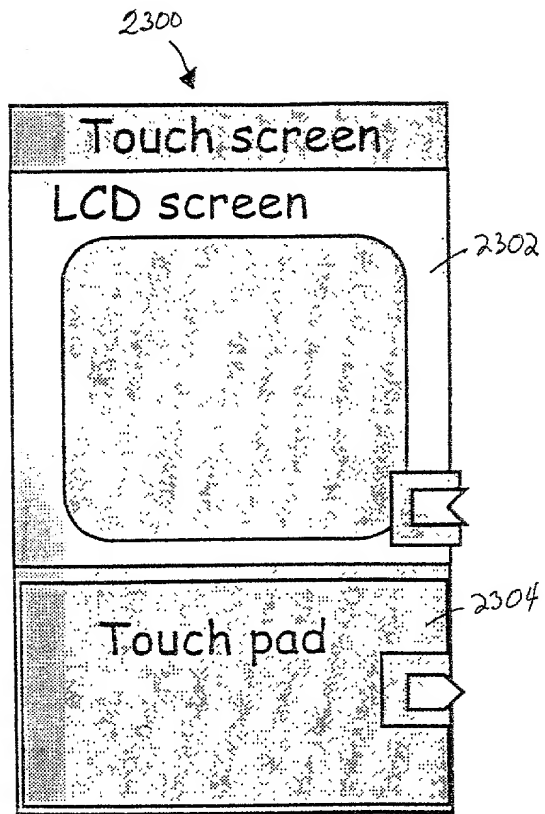


Figure 23A

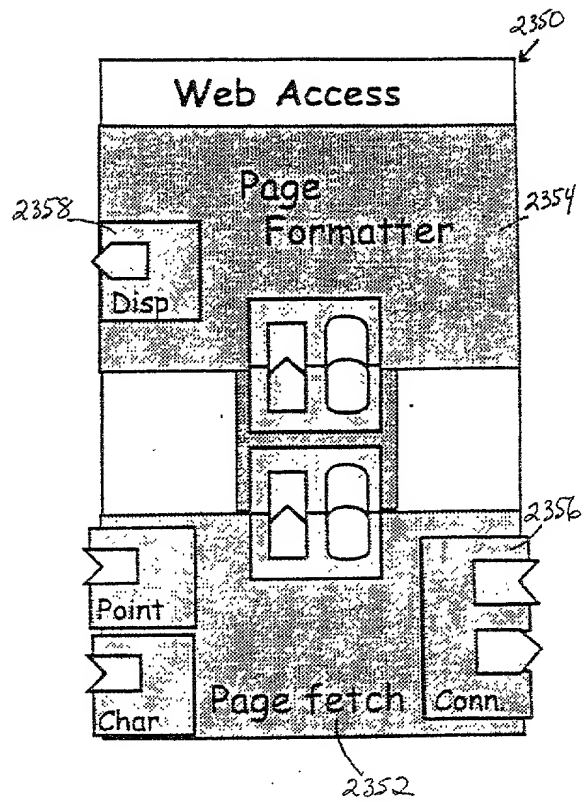


Figure 23B

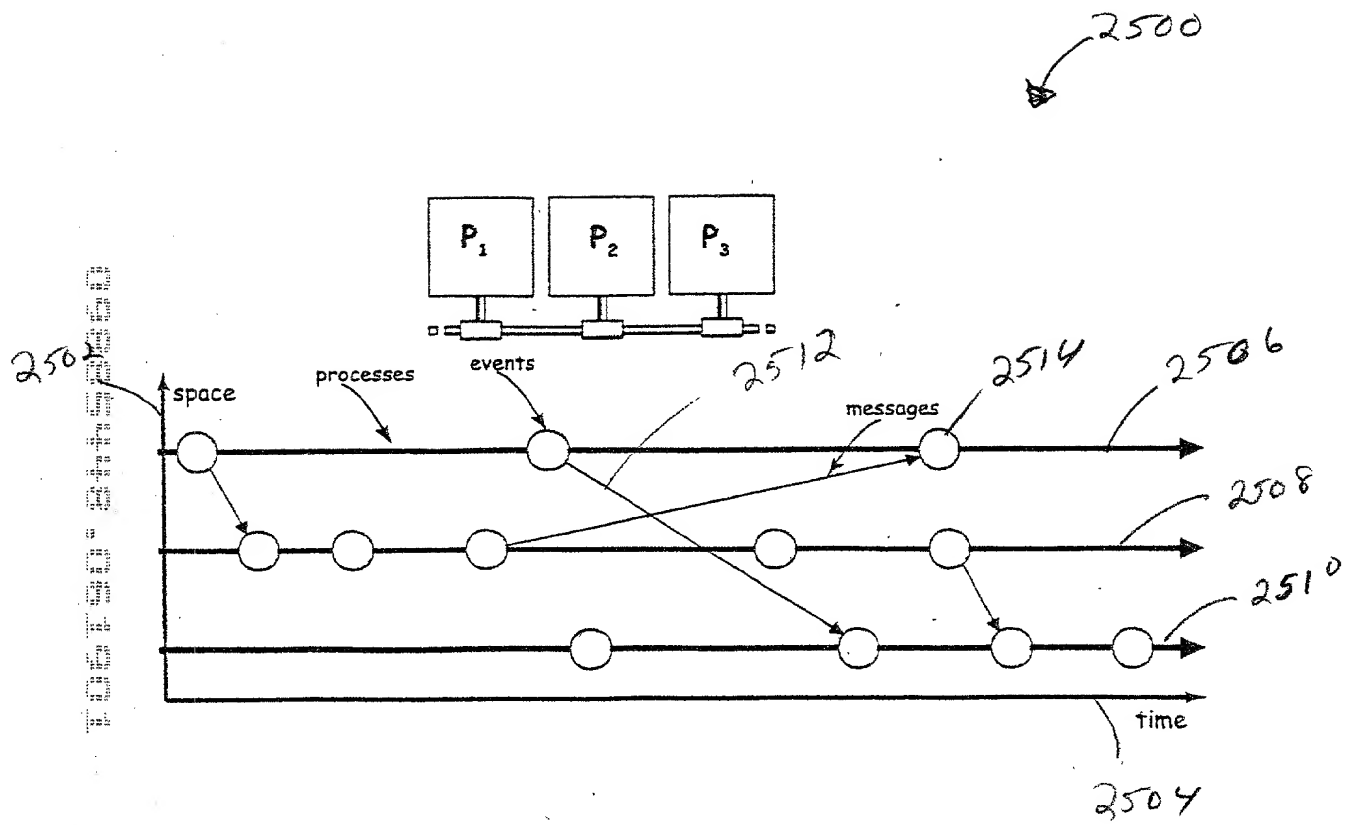


Figure 25

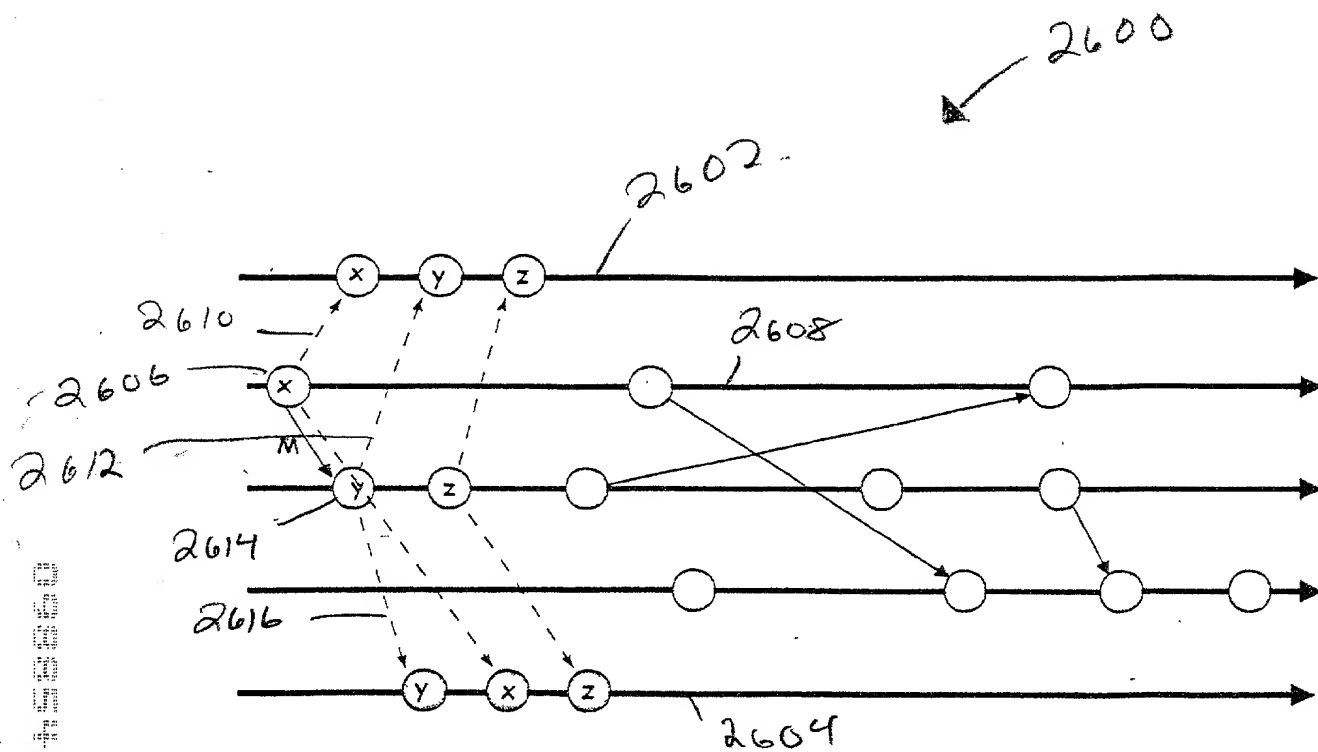


Figure 26

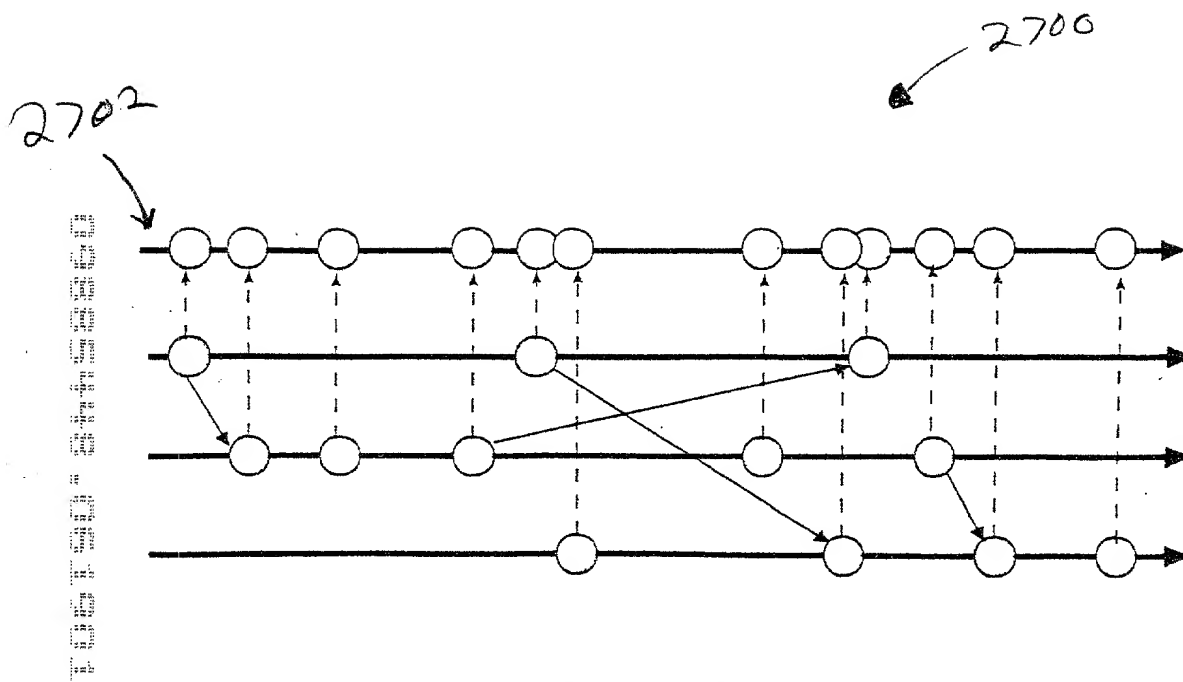


Figure 27

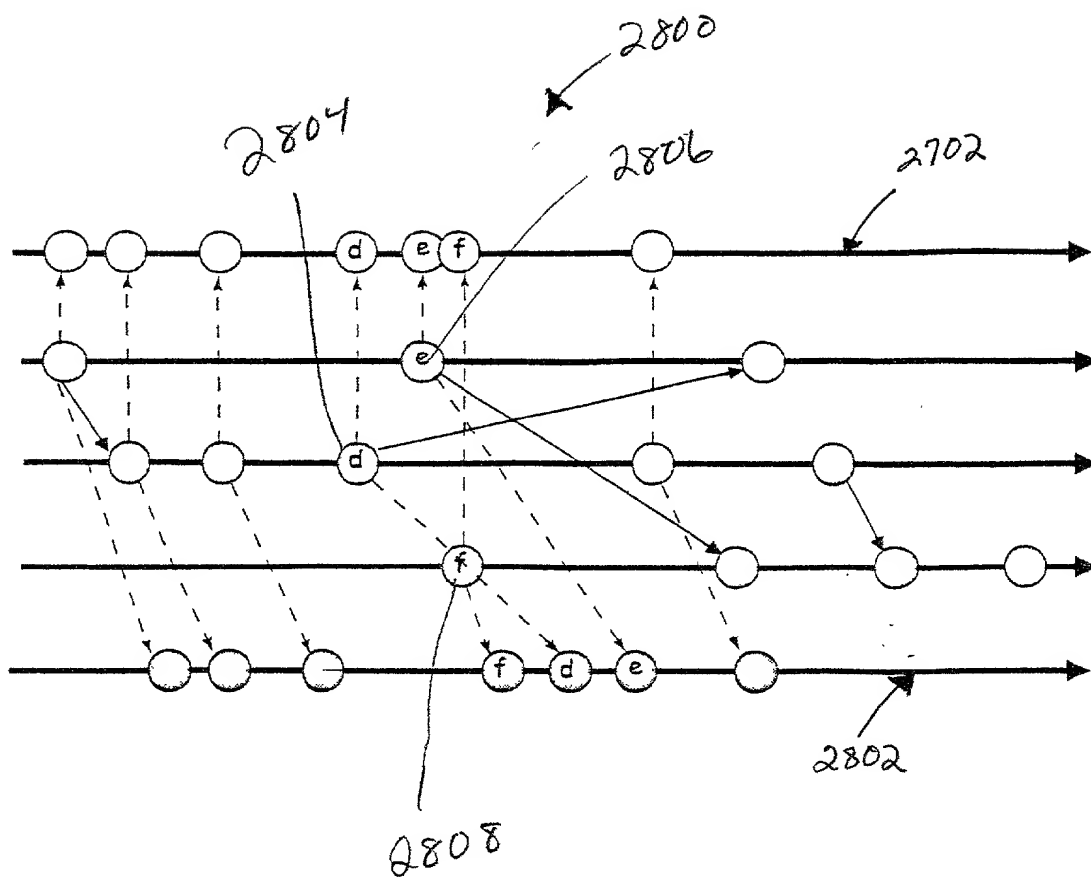


Figure 28

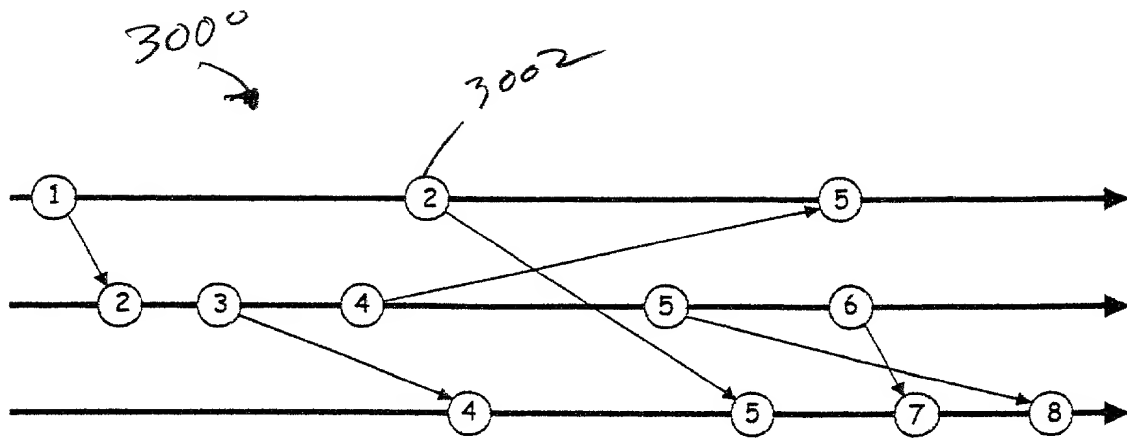


Figure 30

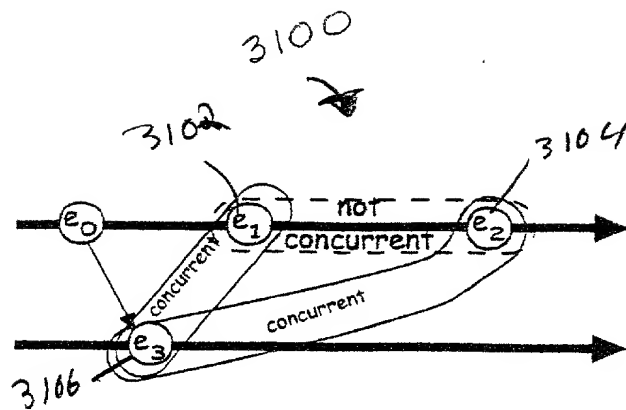


Figure 31

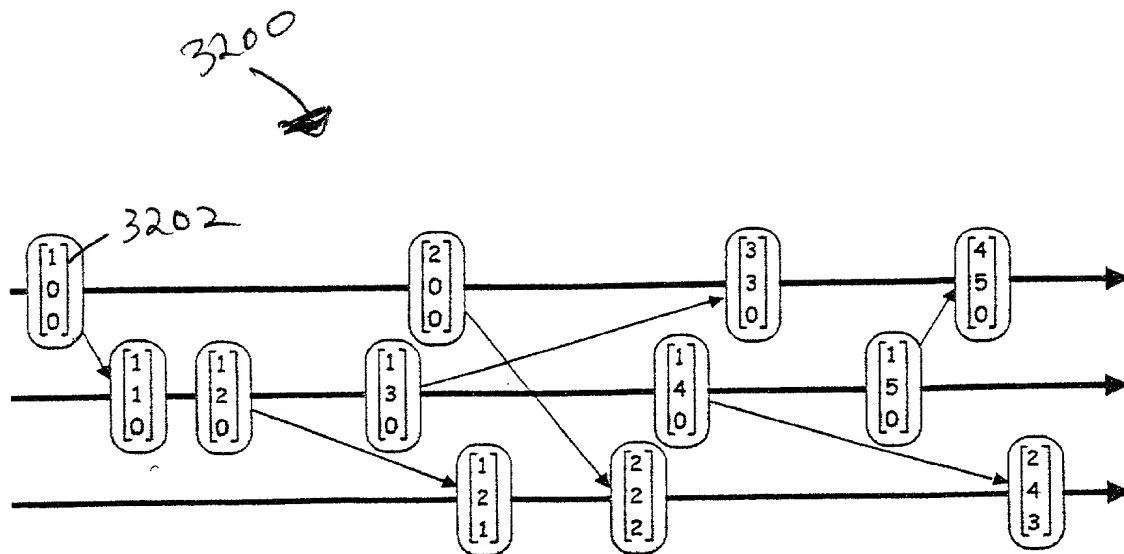


Figure 32

3300

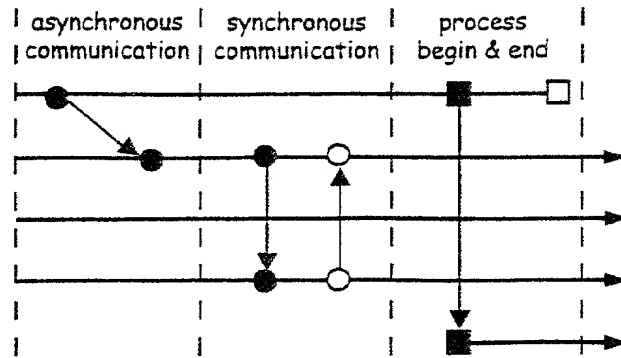


Figure 33

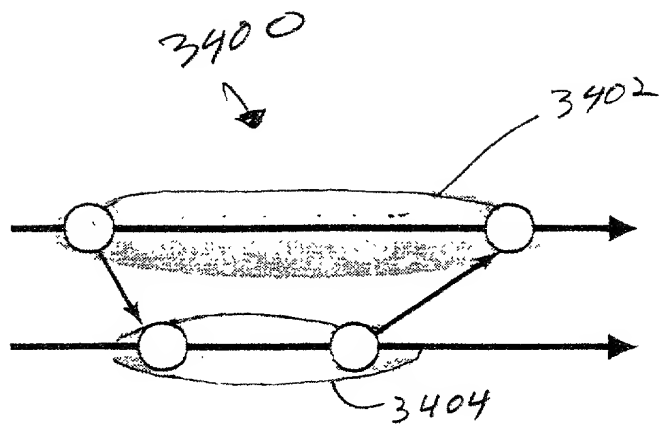


Figure 34

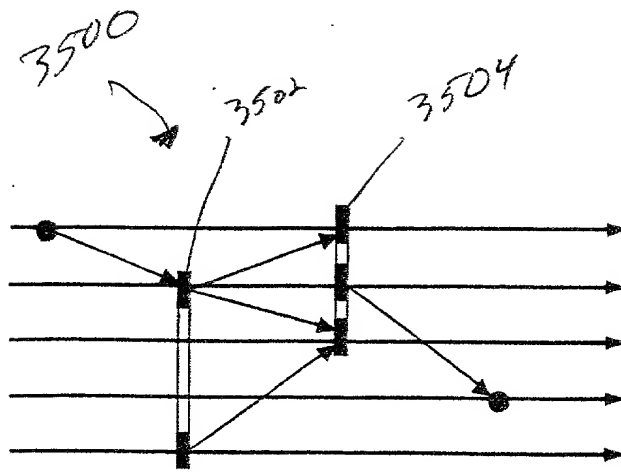


Figure 35

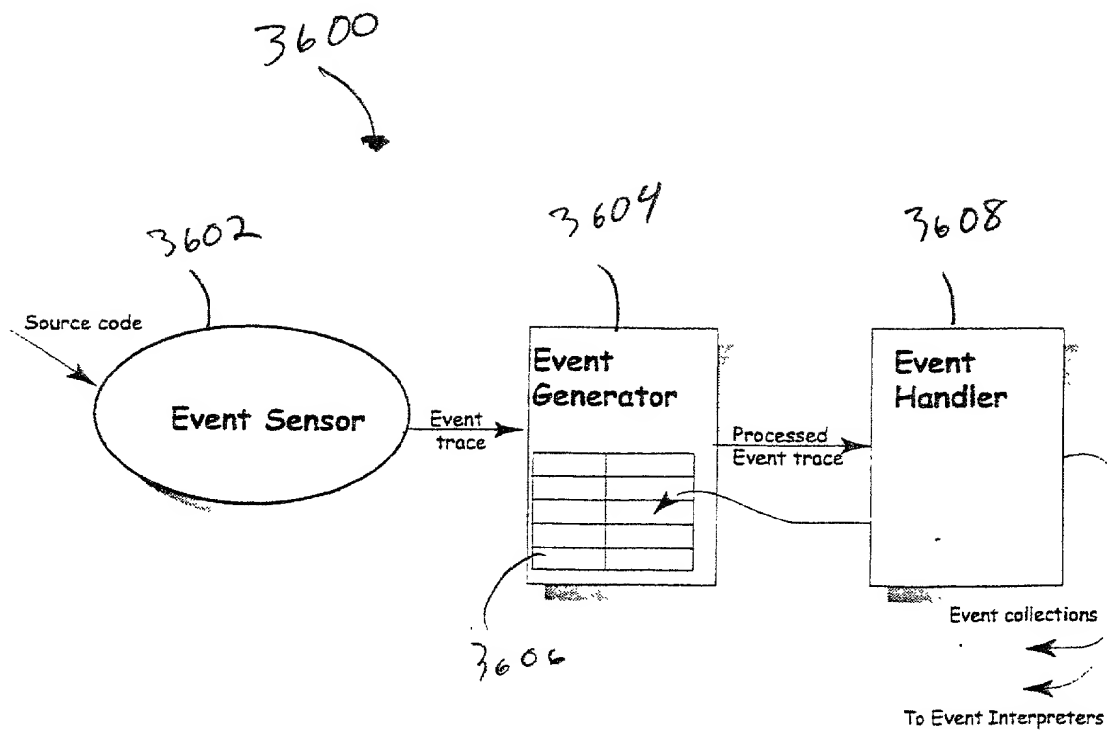


Figure 36

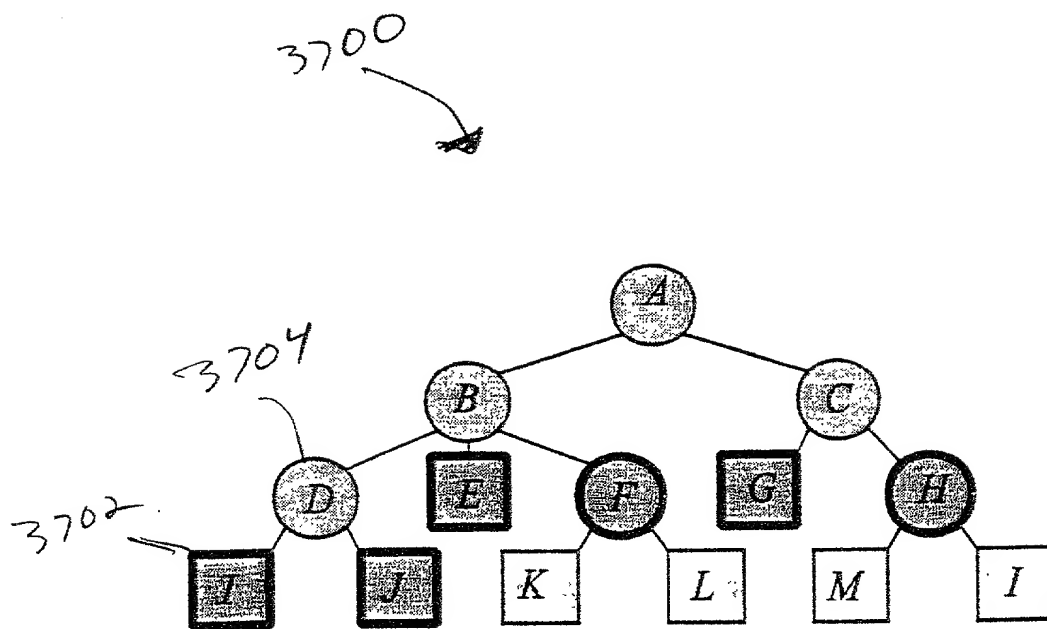
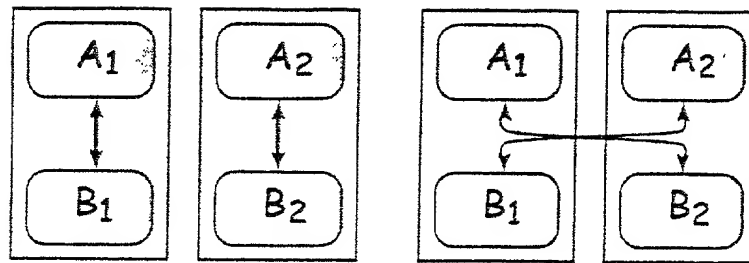
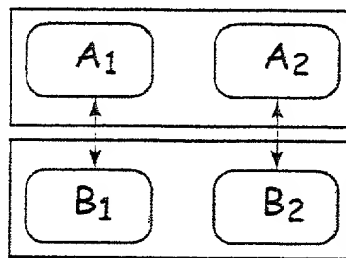


Figure 37



(a) Cohesion(P) = 1.0
Coupling(P) = 0.5

(b) Cohesion(P) = 0.0
Coupling(P) = 1.0



(c) Cohesion(P) = 1.0
Coupling(P) = 0.5

Figure 38

3900

first cut 3902

second cut 3904

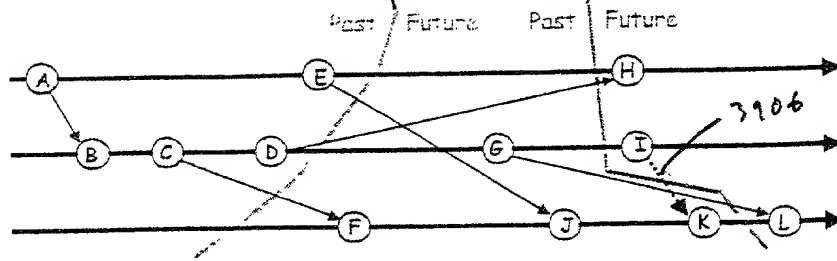


Figure 39

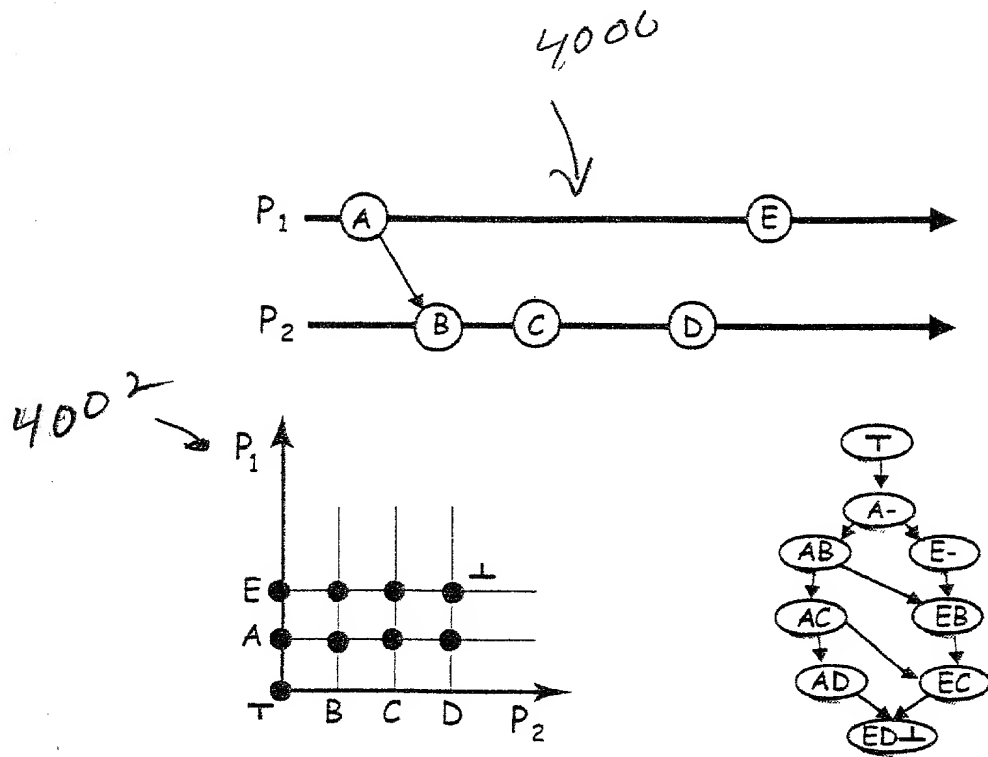


Figure 40

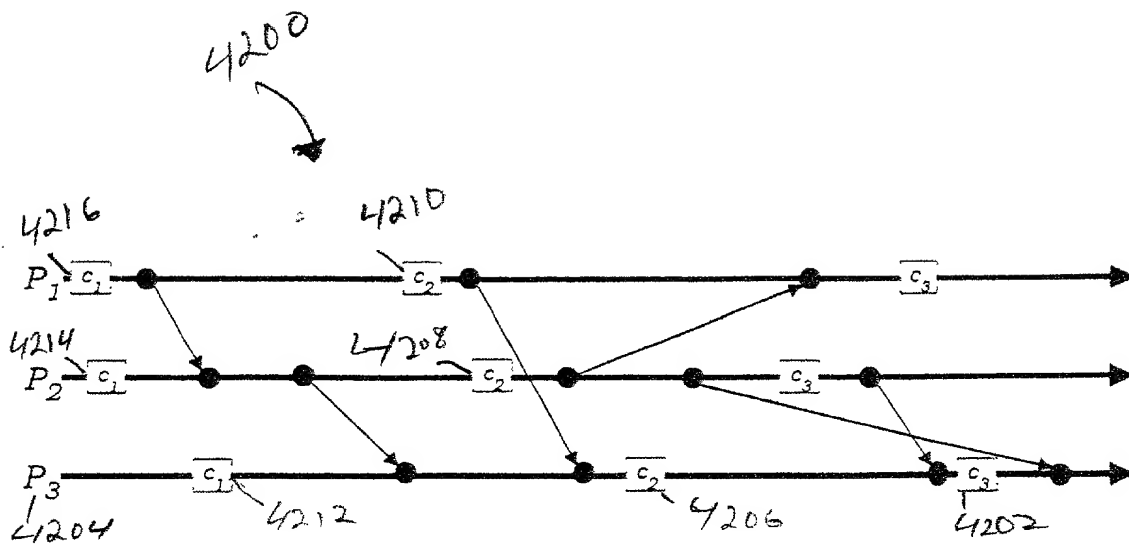


Figure 42

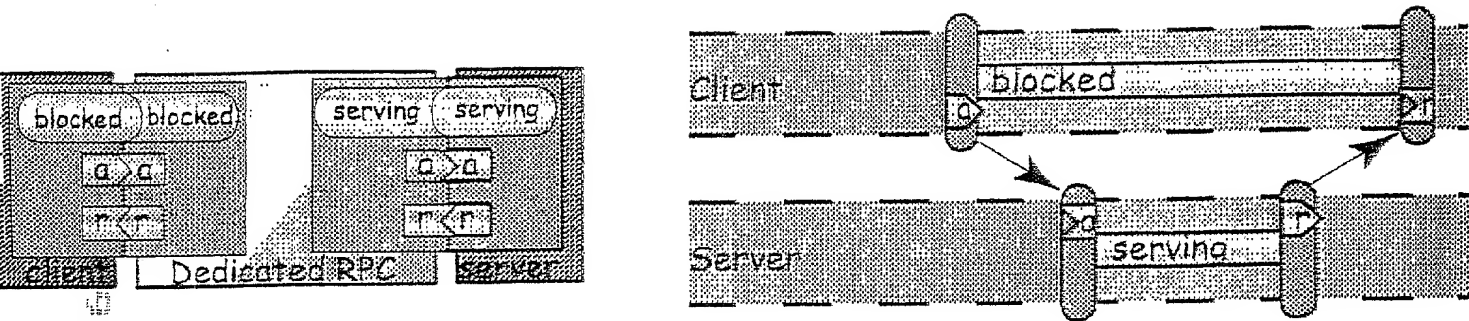


Figure 43

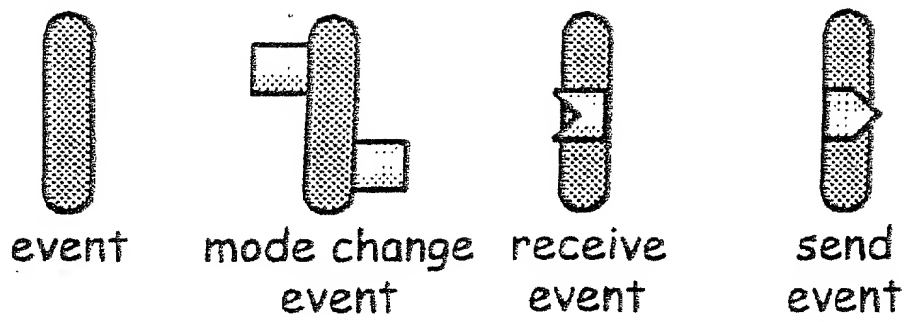


Figure 44

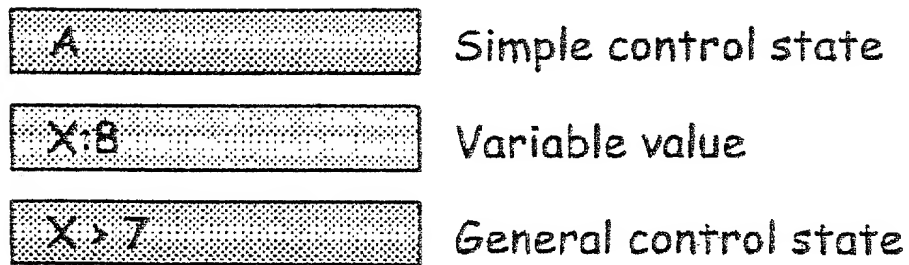


Figure 45

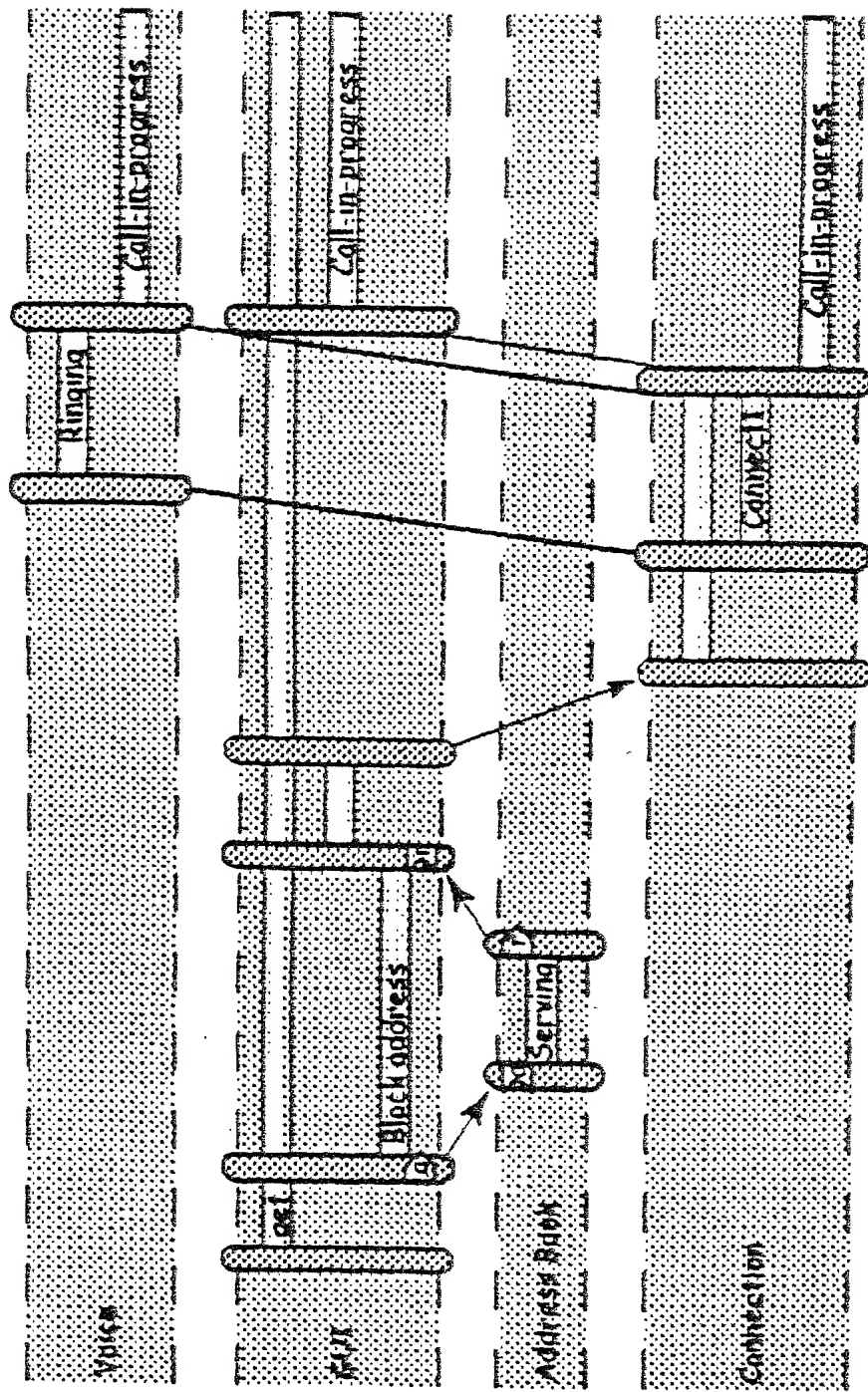


Figure 46

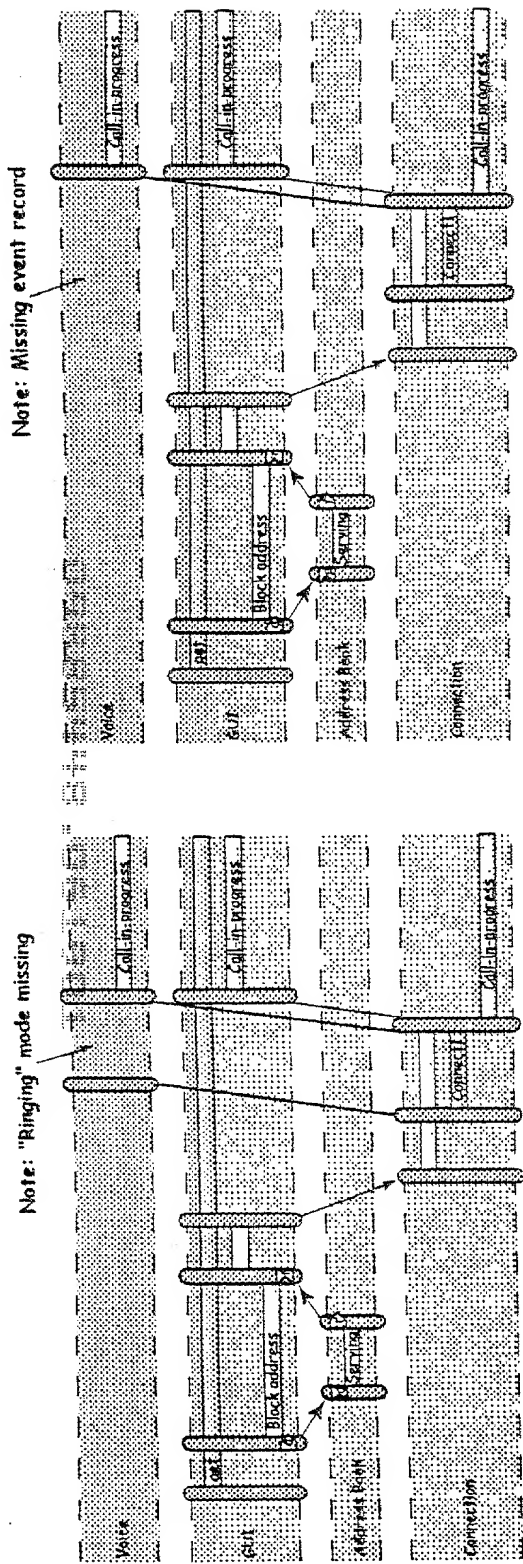


Figure 47A

Figure 47B

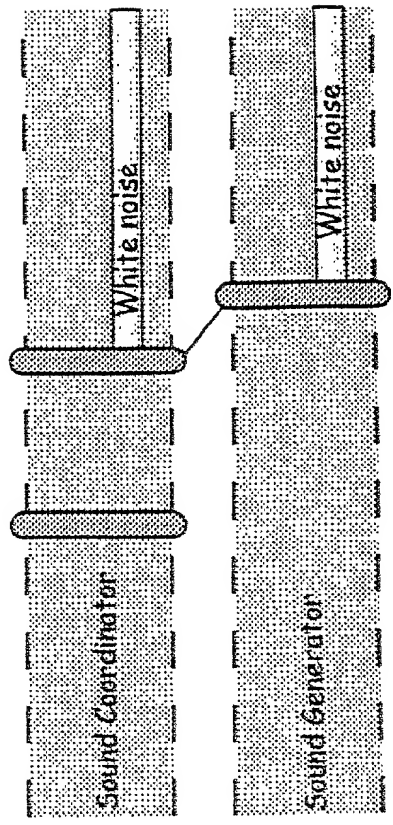


Figure 48

```

if resourceTake ==
resourceTaken =
send(r, "granted")
}
else {
send(r, "fail");
...

```

Network Interface

```

...
send(N, "getResou
while (!new(N));
....
if (!break;
performAction();
send(N, "release
..

```

X

```

...
send(N, "getResou
while (!new(N));
c = get (N); ....
if (!req/c, "granta
q = getAddress(
...
send(y... )//crash

```

Y

Figure 49

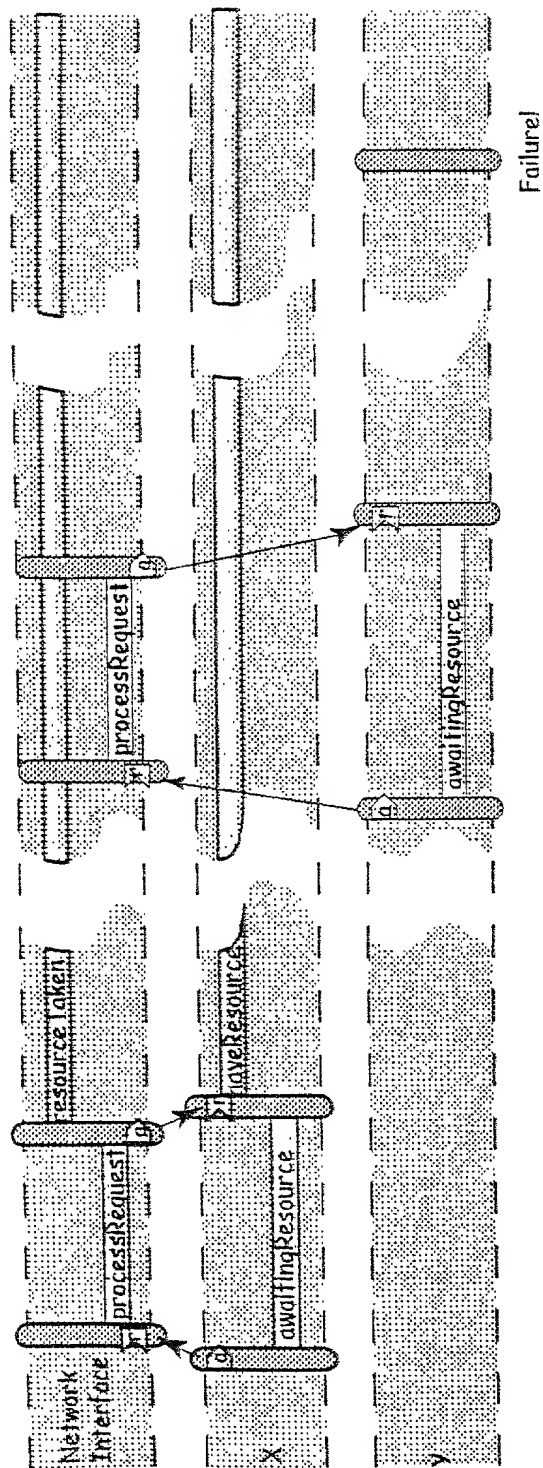


Figure 50

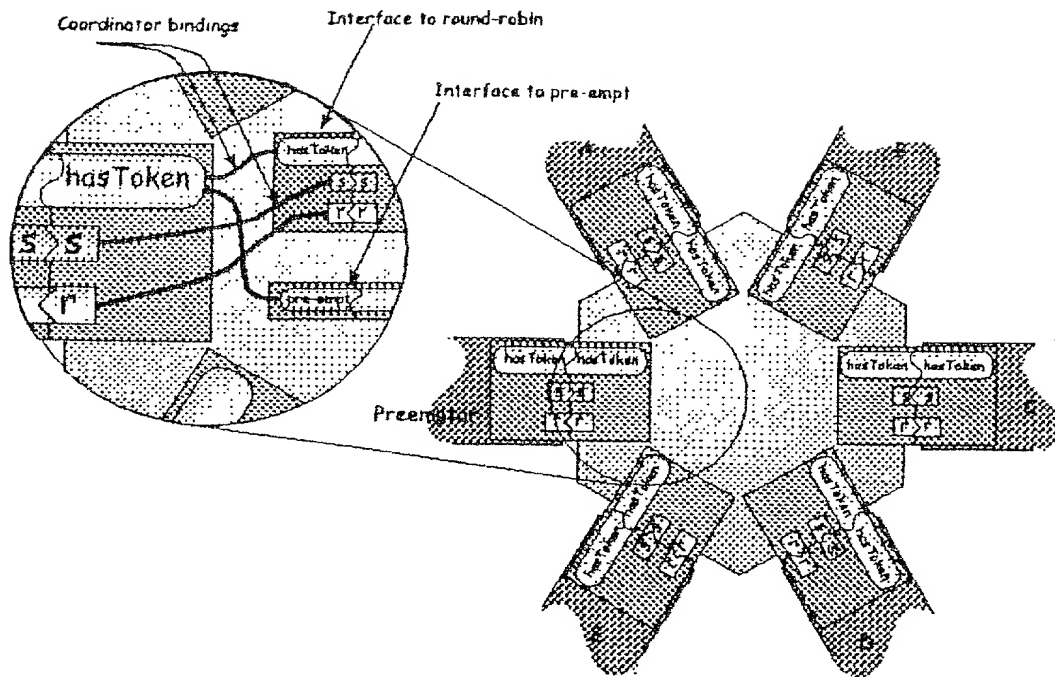


Figure 51A

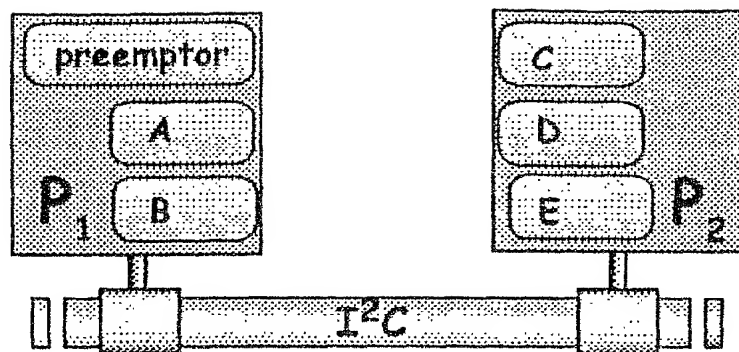


Figure 51B

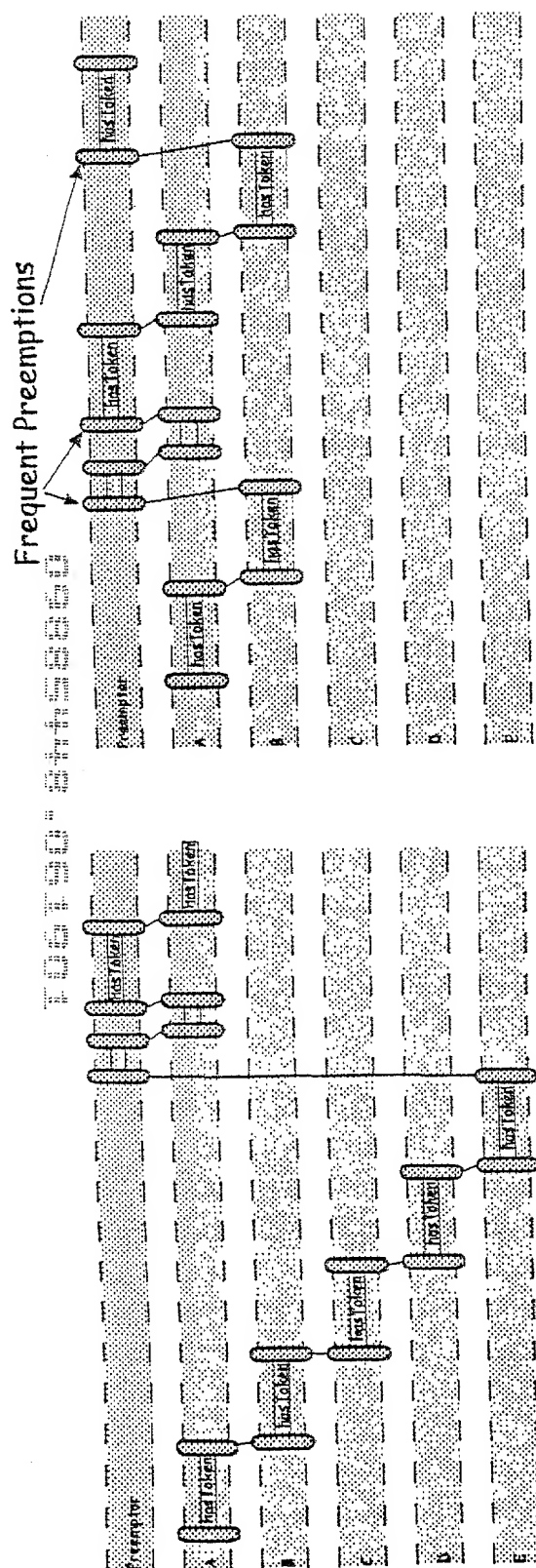


Figure 52A

Figure 52B

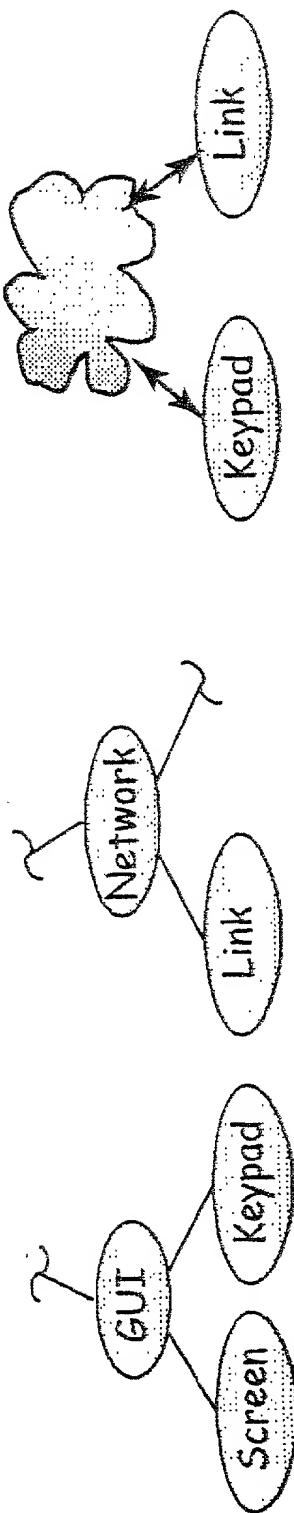
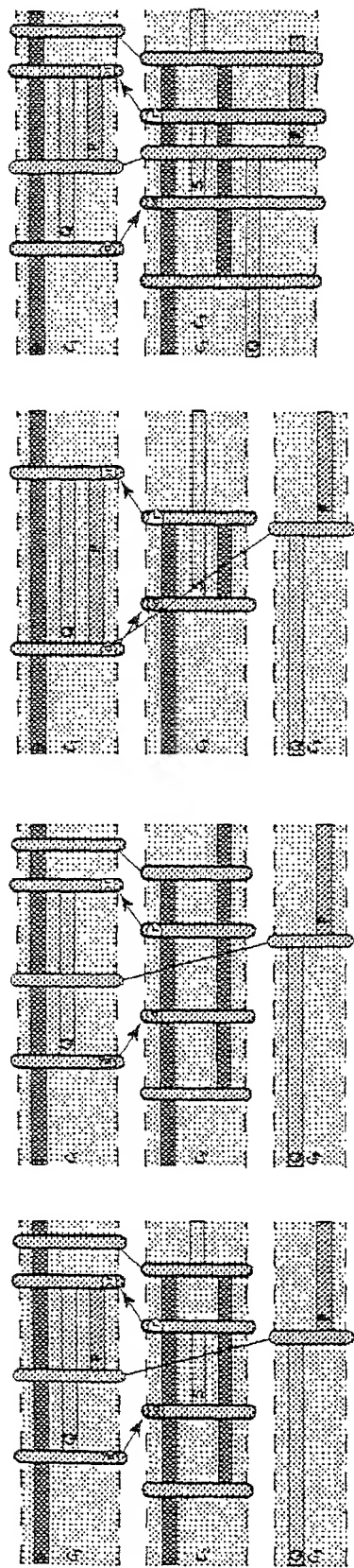


Figure 53A

Figure 53B



(d) After components C_2 and C_3 are clustered.

(c) After some of C_1 's events are clustered.

(b) After states on C_2 's middle and bottom trace are clustered.

(a) Complete evolution diagram.

Figure 54

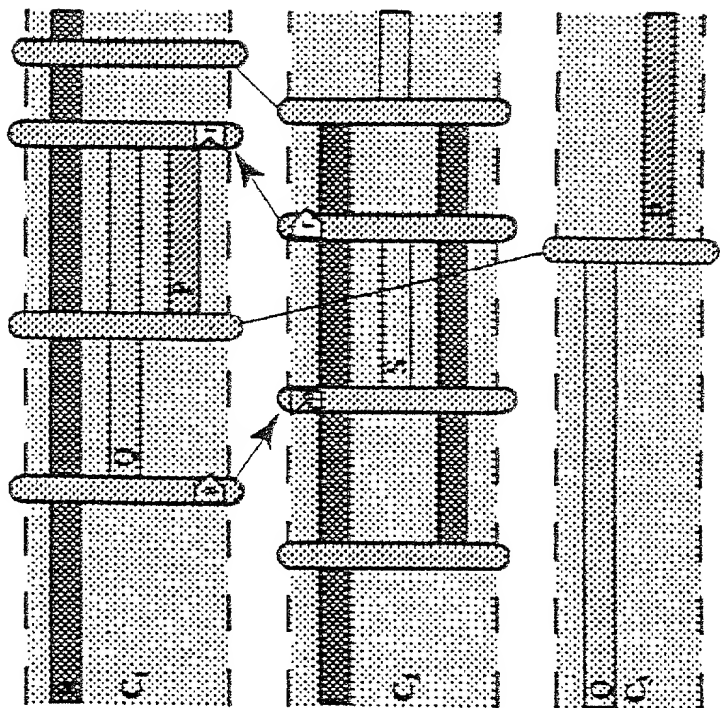


Figure 55A

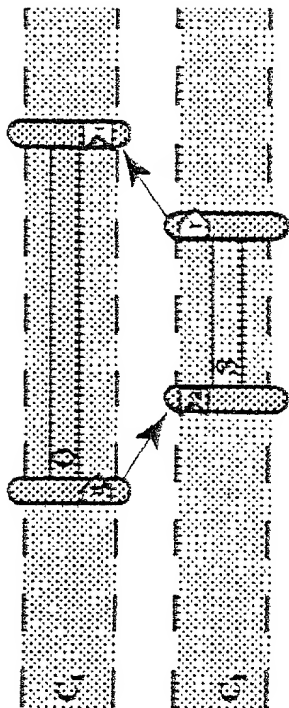


Figure 55B

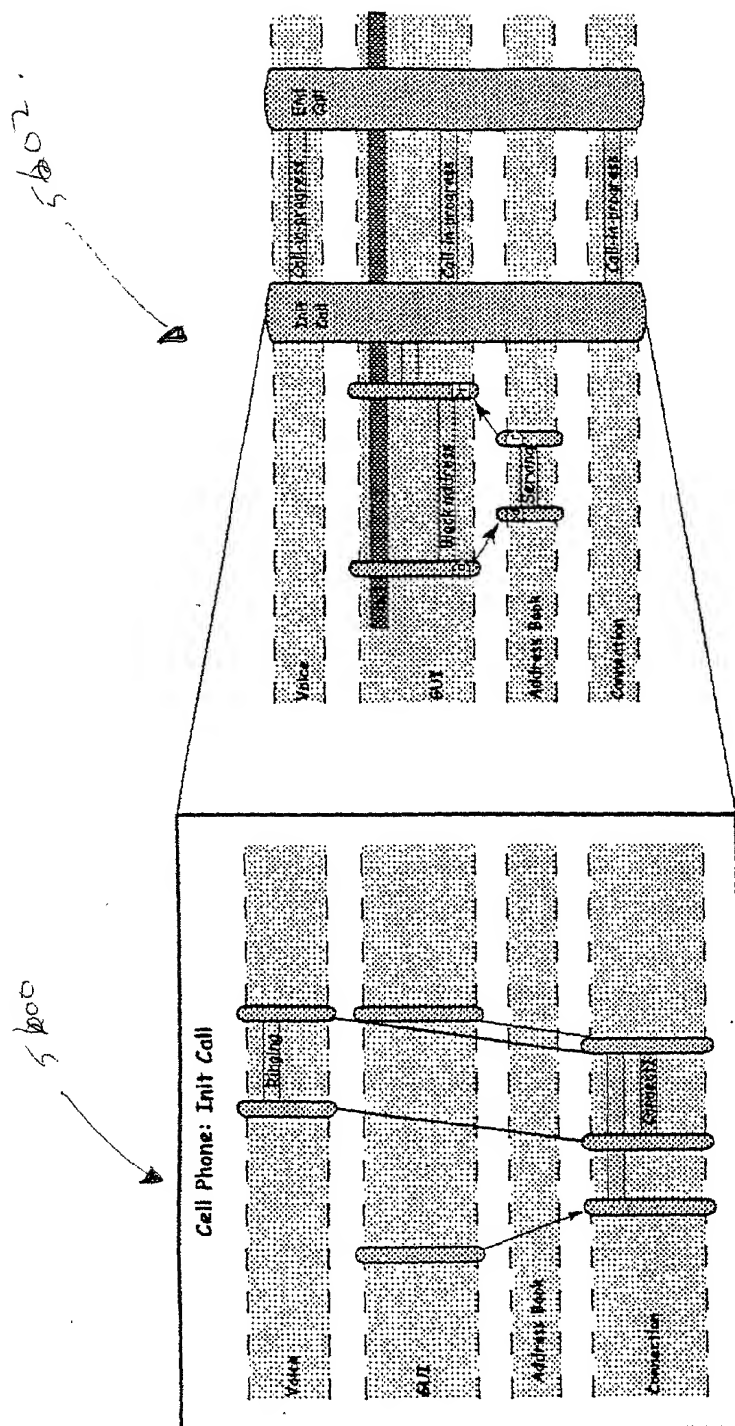
[illegible]

Figure 56

5700 5700 5700

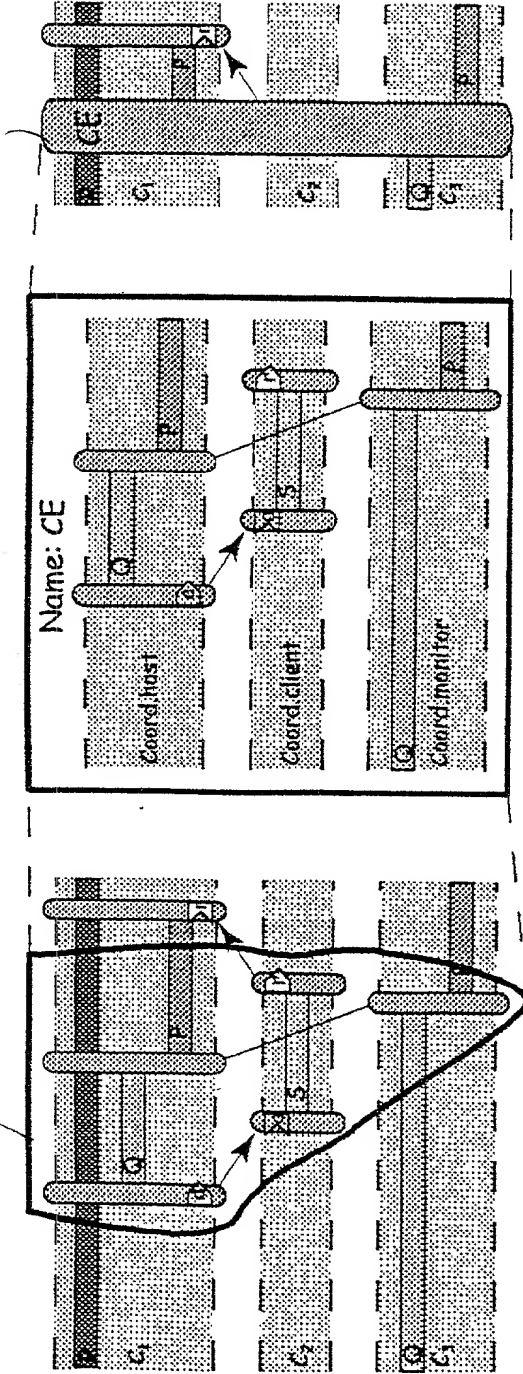


Figure 57

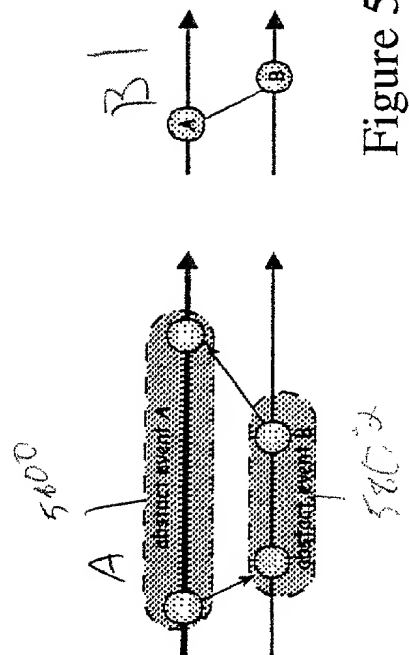


Figure 58

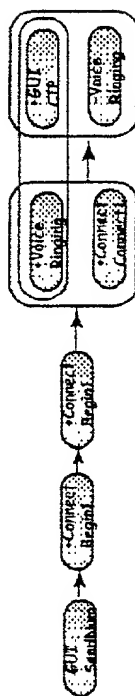
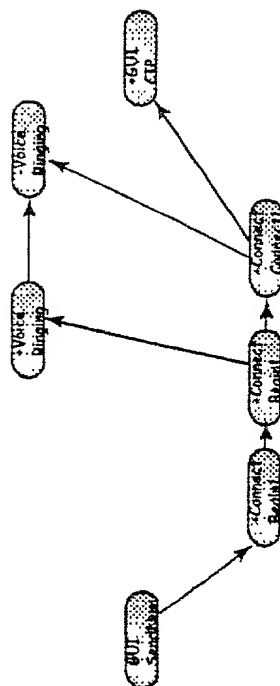
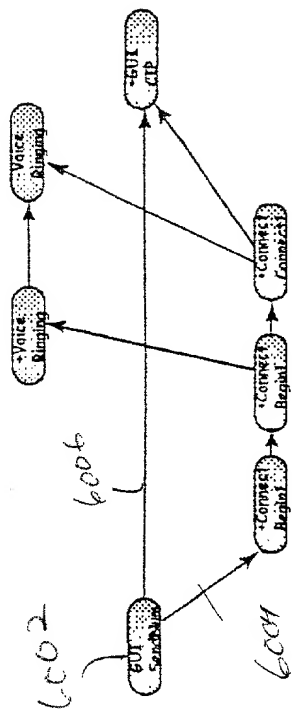
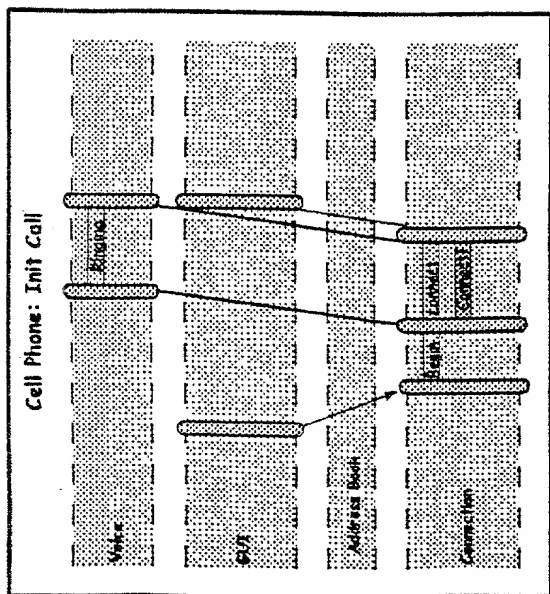


Figure 60

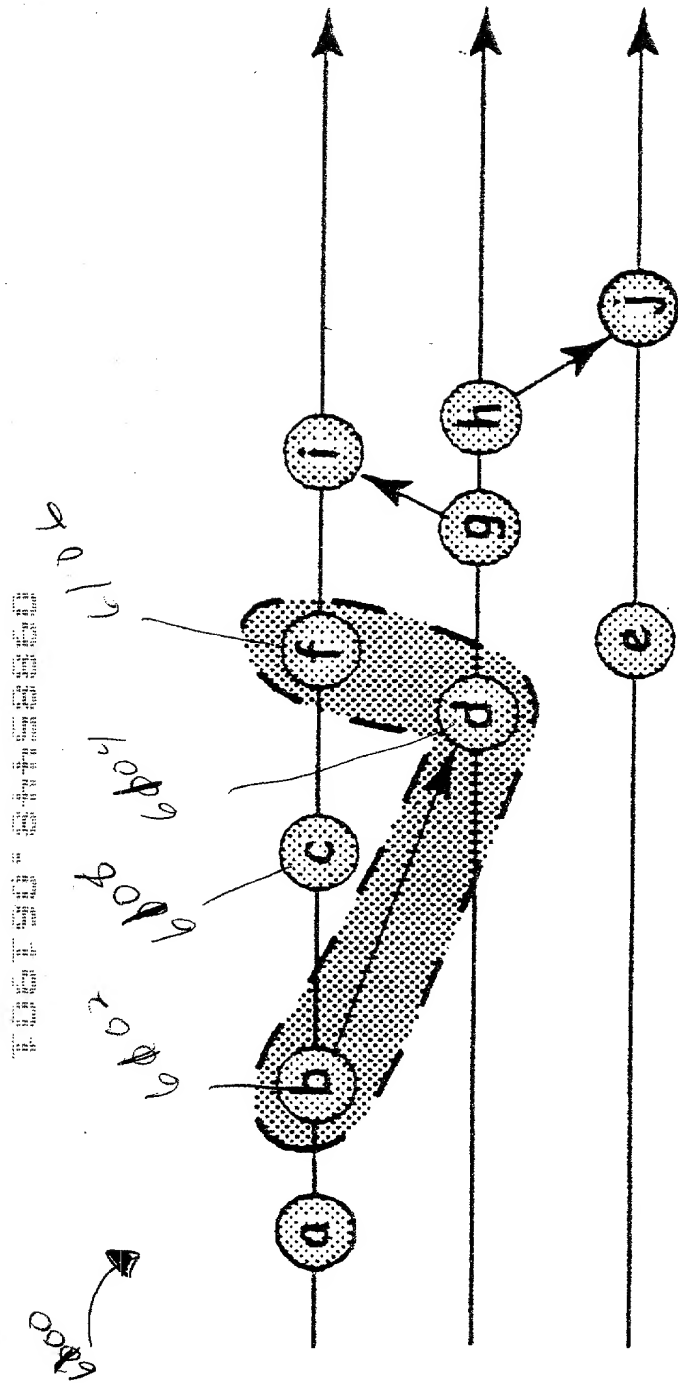


Figure 61

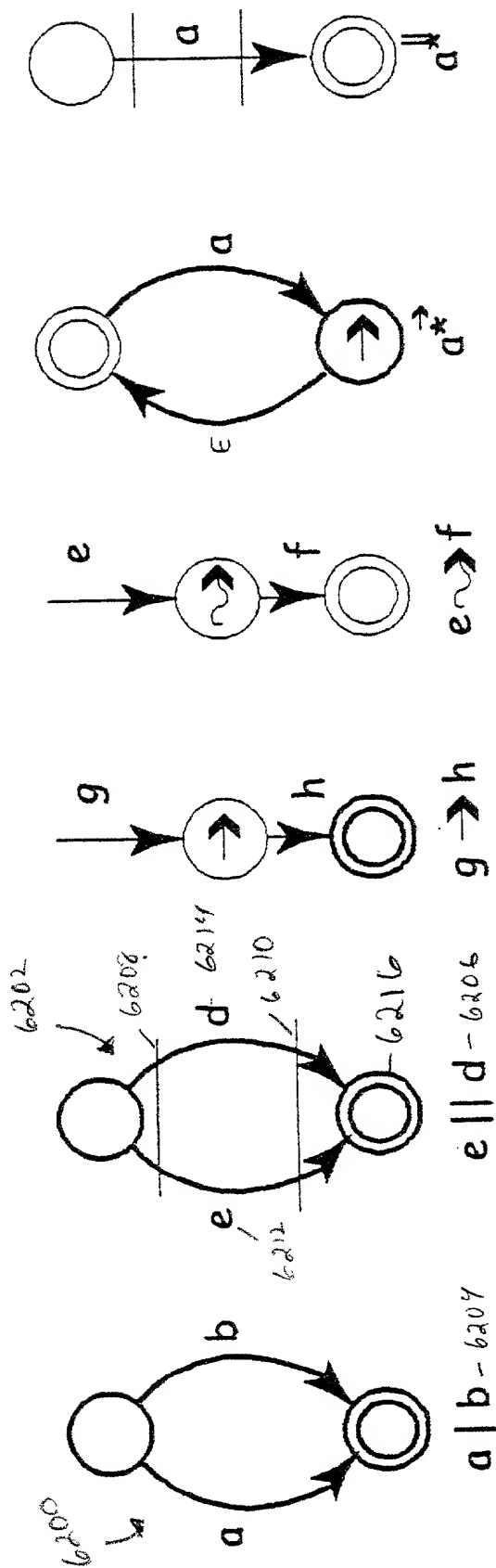


Figure 62

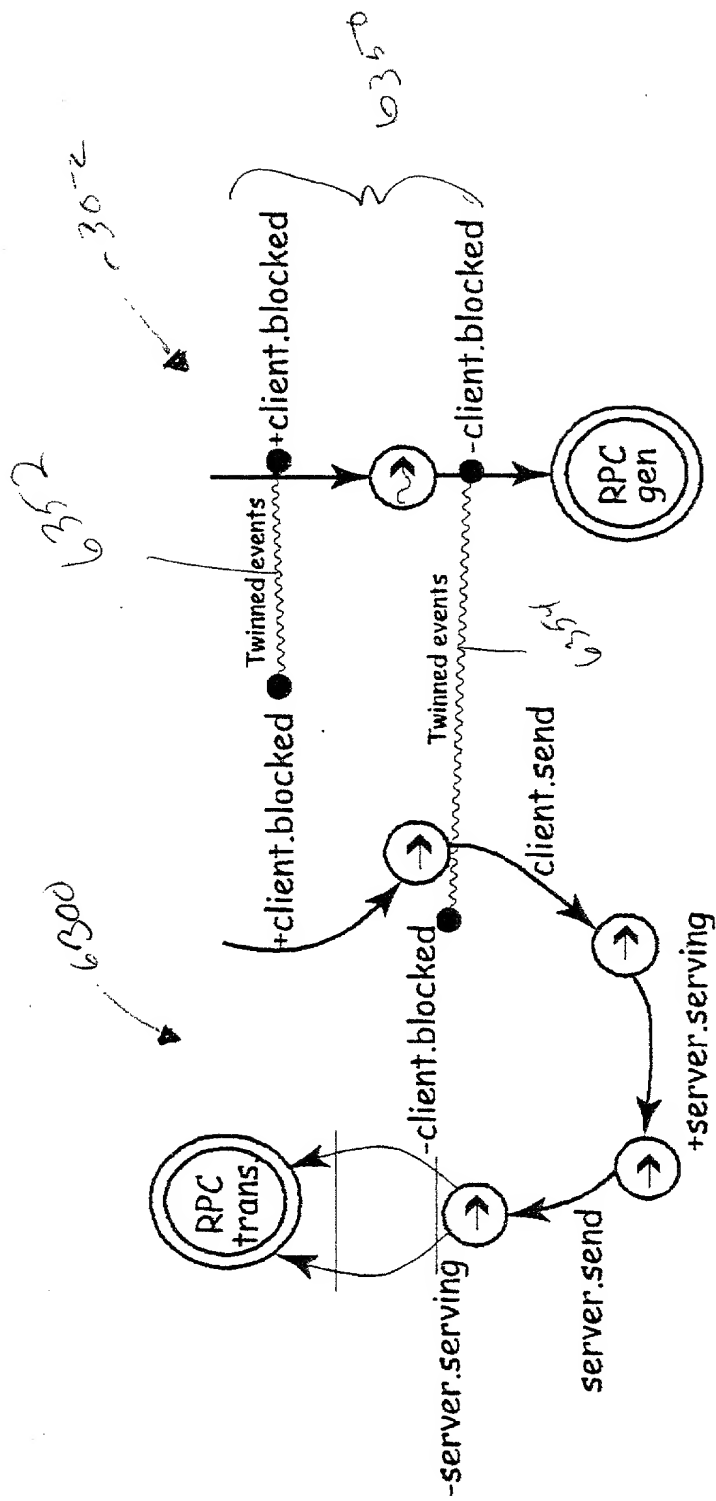


Figure 63

Abstract events

$A = a \rightarrow (b \parallel c) \rightarrow a$

$B = a \rightarrow b$

$C = a \rightarrow g$

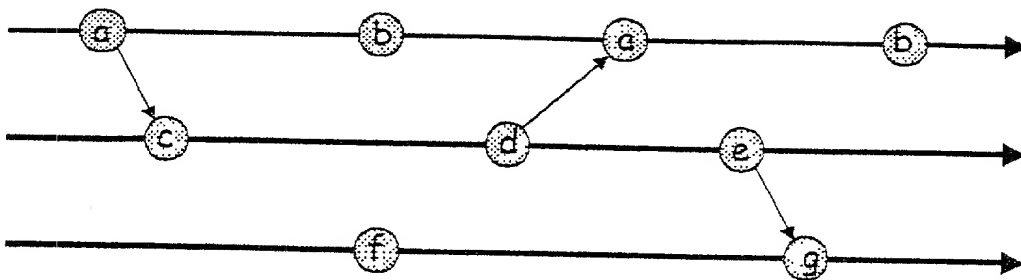
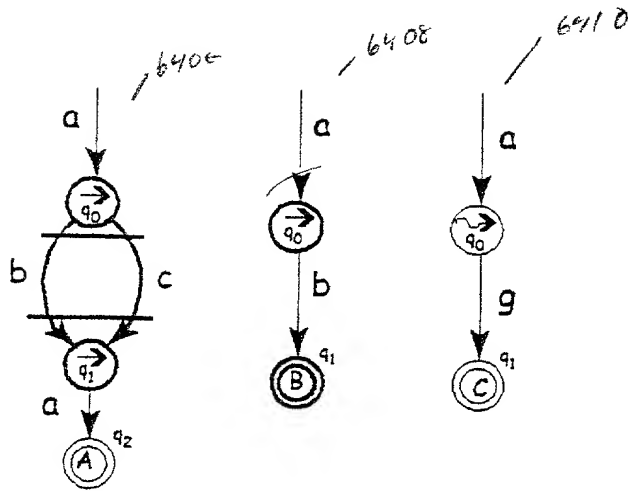


Figure 64

6412

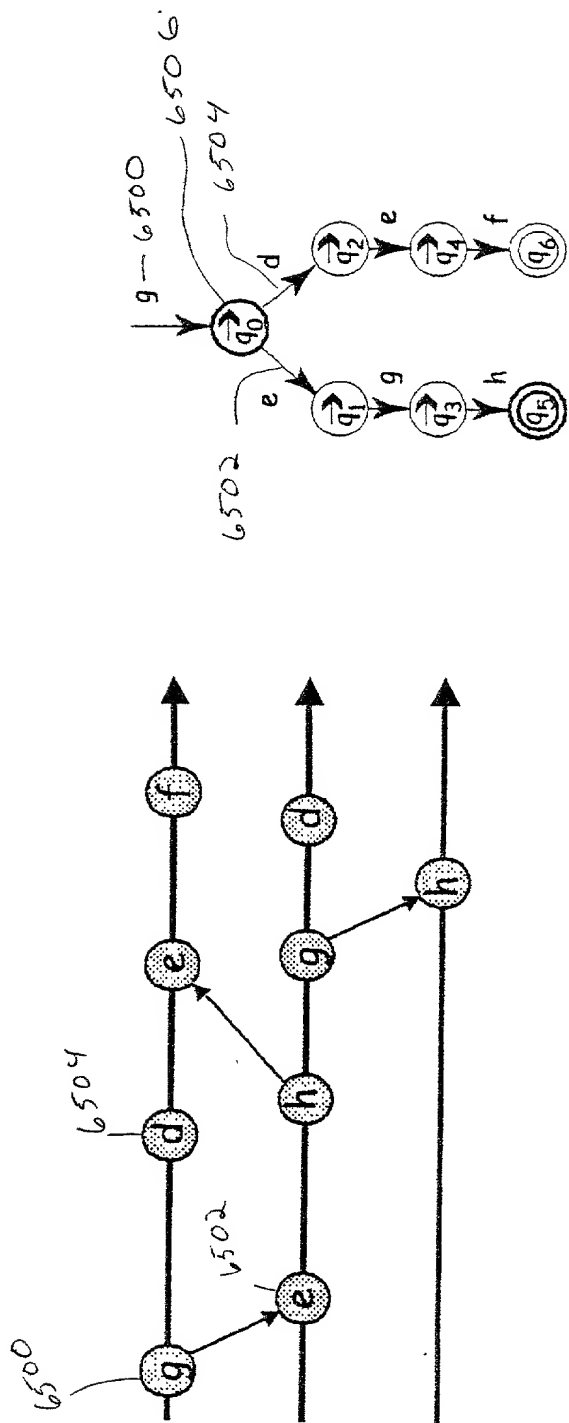


Figure 65

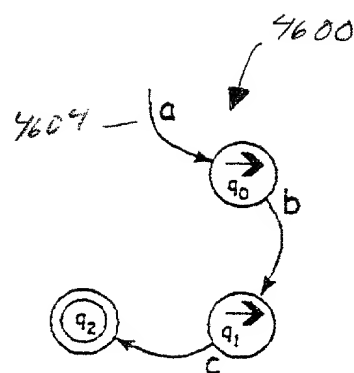


Figure 66